



Joint Evaluation Report



ESR-1305

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DIVISION: 06 00 00—WOOD, PLASTICS AND

COMPOSITES

Section: 06 17 33—Wood I-Joists

REPORT HOLDER:

LOUISIANA-PACIFIC CORPORATION

EVALUATION SUBJECT:

LP® SOLIDSTART® I-JOISTS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015 and 2012 International Building Code[®] (IBC)
- 2021, 2018, 2015 and 2012 International Residential Code® (IRC)

For evaluation for compliance with codes adopted by the Los Angeles Department of Building and Safety (LADBS), see ESR-1305 LABC and LARC Supplement.

Properties evaluated:

- Structural
- Sound ratings
- Fire-resistance ratings

2.0 USES

LP® SolidStart® I-Joists are used as, but not limited to, floor joists, roof joists, blocking panels and rim joists.

LP® SolidStart® I-Joists described in this report comply with Section 2303.1.2 of the IBC and Section R502.1.2 of the 2021, 2018 and 2015 IRC (Section R502.1.4 of the 2012 IRC), for allowable stress design.

3.0 DESCRIPTION

3.1 General:

LP® SolidStart® I-Joists are prefabricated wood I-Joists and have sawn lumber or laminated veneer lumber (LVL) flanges and a single web as specified in the quality documentation that contains the manufacturing standards. The top and bottom flanges are parallel, creating constant-depth joists. Web sections are end-joined together to form a continuous web. Web end joints must be of the types specified in the quality documentation. The web-to-flange connection is a proprietary grooved connection, also conforming to the quality documentation.

LP® SolidStart® I-Joists are available in various lengths and depths, and are produced in the configurations shown in Table 1.

3.2 Material Specifications:

- **3.2.1 Flanges:** Flange material is either sawn lumber or laminated veneer lumber that meets the requirements noted in the quality documentation. Flange material and sizes are listed in Table 1.
- **3.2.2 Web:** Web material is oriented strand board (OSB) that complies with U.S. Voluntary Product Standard PS 2 and the quality documentation. Web thickness is listed in Table 1.
- **3.2.3 Adhesives:** Adhesives are exterior wet-use types complying with ASTM D2559 and ASTM D7247, and are of the types specified in the quality documentation.

4.0 DESIGN AND INSTALLATION

Design of the prefabricated wood I-Joists described in this report is governed by the ANSI/AWC *National Design Specification® for Wood Construction* (NDS), and the applicable code. Additionally, the design and installation of the prefabricated wood I-Joists must comply with Sections 4.1 through 4.7, Tables 2 through 11, Figures 1 and 2, and the manufacturer's published installation instructions. LP® SolidStart® I-Joists may also be used as floor joists in fire-resistance-rated and sound-rated floor-ceiling assemblies as described in Sections 4.8 and 4.9, and in Figures 3, 4, 5 and 6.

4.1 Reference Design Values:

The reference design moment (M_r), vertical shear (V_r), bending stiffness (EI), and shear stiffness coefficient (K) are given in Table 2. Reference design reactions (R_r) and flange bearing capacities are given in Table 3. Adjustments to the reference design values must be made as applicable, in accordance with Sections 4.1.1 through 4.1.5, and corresponding requirements must be met.

- **4.1.1 Duration of Load:** Tabulated reference design values and capacities of Tables 2 and 3 are for normal load duration. Adjustments for other durations of load must be in accordance with Section 7.3.2 of the NDS. Reference design reaction values are permitted to be adjusted for other load durations in accordance with the NDS, provided the Flange Compression Perpendicular-to-Grain values, as given in Table 3, are not exceeded. Tabulated Flange Compression Perpendicular-to-grain Values must not be increased by a load duration factor, C_D.
- **4.1.2 Wet Service Factor:** LP® SolidStart® I-Joists must be installed in dry, well-ventilated interior applications in



which the in-service moisture content of lumber does not exceed 16 percent. The wet service factor, C_M, is 1.0 when the requirements of this section are met.

- 4.1.3 Temperature Factor: Adjustments for sustained exposure to elevated temperatures between 100°F and 150°F must be in accordance with Section 7.3.4 of the NDS.
- 4.1.4 Beam Stability: Continuous lateral support must be provided for the compression flange, and the I-Joists must be restrained against lateral movement and rotation at all supports. Methods specified in the applicable code for lateral support of sawn lumber are acceptable. Bridging is not required for floor and roof joist applications, unless specified as the method for providing lateral support for the compression flange, or unless otherwise required by the applicable code. The beam stability factor, CL, is 1.0 when the requirements of this section are met.
- **4.1.5** Repetitive Member Use: The repetitive member use factor, C_r, applicable to the reference design moments given in Table 2, must be limited to 1.0.

4.2 Fasteners:

The design of fasteners driven into the flanges of LP® SolidStart® I-Joists must comply with the applicable code and this Section. Table 5 specifies the equivalent specific gravity of the flanges for fastener design. Table 6 specifies the nail spacing and end and edge distances for nails into the wide face of the I-Joist flanges.

Table 7 specifies the limitations on the allowable lateral design values for LP® SolidStart® I-Joists used as framing members in horizontal wood structural panel diaphragms.

4.3 Web Stiffeners and Web Fillers:

- **4.3.1 Web Stiffeners:** The material, size, and attachment of web reinforcement must be as illustrated and described in Figure 1 and Table 4. Web stiffeners are required to develop the "End Reaction" and "Interior Reaction" capacities in Table 2 in cases where the table says "YES" for web stiffeners. Web stiffeners are also required for a Bird's Mouth cut.
- 4.3.2 Web Fillers: Web fillers (web stiffeners that fill out the web cavity to provide a surface that is flush with the edges of the flanges) are required for any of the following conditions:
- At birds mouth cut locations.
- Where sloped joist hangers support I-Joists.
- Where joist hangers do not laterally support the I-Joist's top flange.

4.4 Holes in I-ioist Web:

The size and placement of holes cut into the webs of LP® SolidStart® I-Joists must be in accordance with Figure 2 and Tables 8A, 8B, 9A and 9B. Alternately, the allowable shear at the location of circular and rectangular web holes (Vhole) may be calculated as function of the I-joist depth (D), the height of the hole (H) and, for rectangular holes, the width of the hole (W), using the equation and constants given in Table 10. The allowable shear for obround holes is a fixed value for a specific series and depth as specified in Table 11. The design for shear at web holes must account for partial span loading in accordance with Section 7.4.3 of the NDS.

4.5 Member Spans:

I-joist span must be determined in accordance with Section 3.2.1 of the NDS, and the applicable code. Shear calculations must include all loads within the design span.

4.6 Deflection:

Total I-ioist deflection must be calculated by using the

formula for deflection due to both bending and shear as follows:

For example, for a simply supported joist with uniformly distributed loads:

$$\Delta = \frac{22.5 WL^4}{EI} + \frac{WL^2}{K}$$

and for a simply supported joist with a concentrated load at

$$\Delta = \frac{36 \, PL^3}{EI} + \frac{PL}{K}$$

W is the uniform load, in pounds per lineal foot.

L is the design span, in feet.

El is the flexural stiffness, provided in Table 2.

P is the concentrated load, in pounds.

K is the shear stiffness coefficient, provided in Table 2.

 Δ is the deflection, in inches.

4.7 Blocking Panels and Rim Joists:

Vertical and lateral loads from bearing, brace, and shear walls crossing (not parallel to) a wood I-joist floor or roof framing system must be transferred through the framing system utilizing rim board, blocking panels, or squash blocks (vertical loads only).

LP® SolidStart® I-Joists may be used as rim joists (rim board) and blocking panels for the following applications subject to the allowable loads and limitations in Table 12:

- a. Transfer, from bearing, shear, and/or brace walls above, to continuous support below, all vertical and lateral loads at the rim board location.
- b. Provide diaphragm attachment (sheathing to top of rim
- c. Provide lateral support to floor or roof joists (resistance to joist end rotation).

4.8 I-Joists Used in Fire-resistance-rated Floor and Roof Assemblies:

One-hour fire-resistance-rated floor-ceiling assemblies are described in Figures 3, 4 and 5, while a two-hour fireresistance-rated floor-ceiling assembly is shown in Figure 6. LP® SolidStart® I-Joists may also be used in assemblies 21, and 23 through 28, and 30, as listed in 2021, 2018 and 2015 IBC Table 721.1(3); assemblies 21 and 23 through 28, as listed in 2012 IBC Table 720.1(3); and those assemblies containing wood I-Joists that qualify under footnote q of 2021, 2018 and 2015 IBC Table 721.1(3), and 2012 IBC Table 720.1(3).

4.9 Fire Protection of Floors:

LP® SolidStart® I-Joists may be used in the fire protection assemblies described in Section 4.3 of ICC-ES evaluation report ESR-1405, to meet the provisions of 2021, 2018 and 2015 IRC Section R302.13 (Section R501.3 of the 2012 IRC).

4.10 Sound Ratings:

The assembly described in Figure 3 has the sound transmission and impact insulation classification noted in that figure.

5.0 CONDITIONS OF USE

The LP® SolidStart® I-Joists described in this report comply with, or are suitable alternatives to what is specified in, those codes specifically listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 LP® SolidStart® I-Joists must be designed and installed in accordance with this report, the approved construction documents and the manufacturer's installation instructions, which must be available at job site at all times during installation. In the event of a conflict, the most stringent requirement governs. Information provided in Figures 1 through 6 and Tables 1 through 12 must be confirmed for applicability for each project. Engineering calculations and drawings including design details demonstrating that the LP® SolidStart® I-Joists comply with this report must be submitted to the code official when requested. The calculations and drawings including design details must be prepared by a registered design professional where required by the statues of the jurisdiction in which the project is to be constructed.
- **5.2** No cutting or notching of joist flanges is permitted.
- 5.3 Deflections must be limited as set forth in the applicable code, using design properties in Table 2.
- **5.4** Where a one-hour or two-hour fire-resistance rating is required, construction must comply with Section 4.8.
- 5.5 LP® SolidStart® I-Joists must be installed in dry, wellventilated interior applications in which the in-service moisture content of lumber does not exceed 16 percent.
- 5.6 LP® SolidStart® I-Joists are manufactured at the Louisiana-Pacific Corporation Engineered Wood Products facilities in Red Bluff, California; Larouche, Quebec, Canada; and St. Prime, Quebec, Canada under a quality control program with inspections by ICC-ES and APA—The Engineered Wood Association (AA-649).

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Prefabricated Wood I-Joists (AC14), dated June 2019 (editorially revised February 2021).
- 6.2 Data in accordance with the ICC-ES Acceptance Criteria for Rim Board Products (AC124), dated June 2019 (editorially revised February 2021).
- 6.3 Reports of fire tests conducted in accordance with ASTM E119.
- 6.4 Reports of sound transmission tests conducted in accordance with ASTM E90 and E492.

7.0 IDENTIFICATION

- 7.1 LP® SolidStart® I-Joists are identified with the Louisiana-Pacific Corporation name; the joist series; the inspection agency name (APA-The Engineered Wood Association); the evaluation report number (ESR-1305); the mill number; and the date of fabrication.
- **7.2** The report holder's contact information is the following:

LOUISIANA-PACIFIC CORPORATION 414 UNION STREET, SUITE 2000 **NASHVILLE, TENNESSEE 37219** (888) 820-0325

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TABLE 1—LP® SolidStart® I-JOIST CONFIGURATIONS

JOIST SERIES	FLANGE SIZE WIDTH x DEPTH (inches)	NOMINAL FLANGE WIDTH ¹ (inches)	MINIMUM WEB THICKNESS (inch)	JOIST DEPTH RANGE (inches)
		SAWN LUMBER FLANGE	S	
LPI [®] 18	2 ¹ / ₂ x 1 ¹ / ₂	3	³ / ₈	9 ¹ / ₂ to 16
LPI 20Plus	2 ¹ / ₂ x 1 ¹ / ₂	3	3/8	9 ¹ / ₂ to 16
LPI 20x4	$3^{1}/_{2} \times 1^{1}/_{2}$	3	3/8	9 ¹ / ₂ to 16
LPI 32Plus	2 ¹ / ₂ x 1 ¹ / ₂	3	3/8	9 ¹ / ₂ to 16
L DL 40Dl	01/ 41/	3	3/8	9 ¹ / ₂ to 16
LPI 42Plus	$3^{1}/_{2} \times 1^{1}/_{2}$	3	⁷ / ₁₆	18 to 24
LPI 52Plus	$3^{1}/_{2} \times 1^{1}/_{2}$	3	⁷ / ₁₆	9 ¹ / ₂ to 24
		LVL FLANGES		
LPI 26	$1^{1}/_{2} \times 1^{1}/_{2}$	na ²	3/8	9 ¹ / ₂ to 11 ⁷ / ₈
LPI 30	$1^{3}/_{4} \times 1^{1}/_{2}$	2	3/8	9 ¹ / ₂ to 16
LPI 36	2 ¹ / ₄ x 1 ¹ / ₂	3	3/8	11 ⁷ / ₈ to 24
LPI 56	$3^{1}/_{2} \times 1^{1}/_{2}$	3	⁷ / ₁₆	11 ⁷ / ₈ to 24
LPI 450	1 ³ / ₄ x 1 ⁵ / ₁₆	2	3/8	9 ¹ / ₂ to 16
LPI 530	2 ¹ / ₁₆ x 1 ⁵ / ₁₆	2	3/8	9 ¹ / ₂ to 16

For **SI**: 1 in = 25.4 mm.

TABLE 2—REFERENCE DESIGN VALUES FOR LP® SolidStart® I-JOISTS1,2,3,4

JOIST SERIES	JOIST DEPTH (in)	MOMENT, M _r (lbf-ft)	EI (x10 ⁶ lbf-in²)	SHEAR, V _r (lbf)	SHEAR STIFFNESS COEFF., K (x10 ⁶ lbf-ft./in)
		SAWN LUMB	ER FLANGES		
	91/2	2365	142	1130	0.355
LPI 18	11 ⁷ / ₈	3100	248	1335	0.435
	14	3720	371	1510	0.508
	16	4230	514	1680	0.577
	9 ¹ / ₂ ⁵	2810	185	1260	0.358
LPI 20Plus	11 ⁷ / ₈ ⁵	3755	318	1485	0.438
LPI 20x4	14 ⁵	4400	474	1680	0.512
	16⁵	5050	652	1870	0.582
	9 ¹ / ₂ ⁶	3620	243	1260	0.213
I DI CODI	11 ⁷ / ₈ ⁶	4690	406	1485	0.267
LPI 32Plus	14 ⁶	5645	589	1680	0.313
	16 ⁶	6545	791	1870	0.358
	91/2	5375	321	1340	0.412
	11 ⁷ / ₈ ⁷	6965	547	1625	0.515
	14 ⁷	8390	802	1875	0.607
I DI 40DI	16 ⁷	9725	1092	2115	0.693
LPI 42Plus	18	11000	1333	2555	0.960
	20	12170	1688	2795	1.067
	22	13335	2088	3030	1.173
	24	14480	2534	3270	1.280
	91/2	6540	356	1745	0.507
	11 ⁷ / ₈	8475	600	2055	0.633
	14	10205	874	2330	0.747
L DI CODivo	16	11835	1183	2585	0.853
LPI 52Plus	18	13380	1540	2845	0.960
	20	14810	1948	3105	1.067
	22	16220	2408	3360	1.173
	24	17615	2919	3620	1.280

For SI: 1 inch = 25.4 mm, 1 ft-lb = 1.356 N-m, 1 lb = 4.448 N, 1 in²-lb = 0.00287 N-m². See Notes for Table 2 on the following page.

Nominal flange width designates the equivalent minimum nominal width of framing members at adjoining panel edges and boundaries for use in horizontal wood structural panel diaphragms framed with LP® SolidStart® I-Joists as shown in Table 7.

²The LPI 26 series I-Joists have not been evaluated for use in diaphragms.

TABLE 2 (Continued)—REFERENCE DESIGN VALUES FOR LP® SolidStart® I-JOISTS1,2,3,4

JOIST SERIES	JOIST DEPTH (in)	MOMENT, M _r (lbf-ft)	EI (x10 ⁶ lbf-in ²)	SHEAR, V _r (lbf)	SHEAR STIFFNESS COEFF., K (x10 ⁶ lbf-ft./in)
		LVL FL	ANGES		•
LPI 26	9 ¹ / ₂	3250	165	1125	0.368
LPI 20	11 ⁷ / ₈	4205	286	1425	0.447
	91/2	3825	199	1125	0.357
LPI 30	11 ⁷ / ₈	4950	334	1425	0.451
LPI 30	14	5960	484	1725	0.541
	16	6910	650	1980	0.613
	11 ⁷ / ₈	6445	429	1615	0.468
	14	7755	622	1830	0.550
	16	8995	836	2020	0.625
LPI 36	18	10135	1082	2185	0.700
	20	11270	1360	2320	0.774
	22	12390	1669	2435	0.850
	24	13505	2010	2525	0.922
	11 ⁷ / ₈	10170	668	2055	0.549
	14	12250	968	2330	0.641
	16	14205	1301	2585	0.729
LPI 56	18	16010	1684	2845	0.817
	20	17800	2115	3105	0.905
	22	19575	2597	3360	0.993
	24	21340	3127	3620	1.081
	91/2	3350	170	1230	0.473
LPI 450	11 ⁷ / ₈	4320	286	1430	0.585
LPI 400	14	5120	419	1605	0.686
	16	5860	569	1775	0.782
	9 ¹ / ₂	4000	200	1340	0.478
I DI 520	11 ⁷ / ₈	5150	337	1565	0.591
LPI 530	14	6110	492	1765	0.693
	16	6990	666	1955	0.789

For **SI**: 1 inch = 25.4 mm, 1 ft-lb = 1.356 N-m, 1 lb = 4.448 N, 1 in²-lb = 0.00287 N-m².

Example: Formula for uniform load on a simple span I-joist:

$$\Delta = \frac{22.5WL^4}{EI} + \frac{WL^2}{K}$$

 Δ = Deflection in inches.

W = Uniform load in pounds per lineal foot (plf).

L = Design span in feet.

Shear stiffness coefficient in x106 lbf-ft/in. K =

EI = Flexural stiffness in $x10^6$ lbf-in.².

¹The allowable design values are for dry use conditions only. Dry use applies to products installed in dry, covered and well ventilated interior conditions, in which the in-service moisture content of lumber does not exceed 16%.

²Reference design values are for normal load duration. Adjustments to the reference design values must be made as applicable, in accordance with Sections 4.1.1 through 4.1.5 of this report, and corresponding requirements must be met.

³When calculating deflection, both bending and shear deformation must be determined (See Section 4.6). For bending deflection use the standard engineering formulas.

⁴For reference design reaction values, see Table 3.

⁵The 9¹/₂ 11⁷/₈ 14 and 16 inch LPI 20Plus stamped with mill number 1068 (Larouche, QC), and the 9¹/₂ 11⁷/₈ and 14 inch LPI 20Plus stamped with mill number 1077 (St. Prime, QC) shall be permitted to be designed as the PRI-40 I-joists in accordance with ESR-1405.

⁶The 9¹/₂, 11⁷/₈, 14 and 16 inch LPI 32Plus stamped with mill number 1068 (Larouche, QC), and the 9¹/₂, 11⁷/₈, and 14 inch LPI 32Plus stamped with mill number 1077 (St. Prime, QC) shall be permitted to be designed as the PRI-60 I-joists in accordance with ESR-1405.

⁷The 11⁷/₈ 14 and 16 inch LPI 42Plus stamped with mill number 1068 (Larouche, QC) or 1069 (Red Bluff, CA), and the 11⁷/₈ and 14 inch LPI 42Plus stamped with mill number 1077 (St. Prime, QC) are recognized as the PRI-80 in accordance with ESR-1405.

TABLE 3—REFERENCE DESIGN REACTIONS AND FLANGE BEARING CAPACITIES^{1,2,3,4}

			ENI	REACTION	(lbf)		INT	ERMEDIATE	REACTION	(lbf)	
JOIST	JOIST	Mi	nimum Bear	ing		n Bearing in.)		Bearing ⁵ ₂ in.)		n Bearing in.)	FLANGE COMPRESSION
SERIES	DEPTH	Web St	iffeners	Minimum	Web St	iffeners	Web St	iffeners	Web St	iffeners	PERP-TO-
	(in)	NO	YES ⁶	Bearing Length (in)	NO	YES ⁶	NO	YES 6	NO	YES 6	GRAIN (psi)
					SAWN L	UMBER FLA	NGES				
	91/2	870	1025		995	1130	1975	2135	2205	2370	
LPI 18	11 ⁷ / ₈	870	1145	1 ¹ / ₂	1040	1335	2095	2270	2335	2545	425
LFIIO	14	870	1255		1080	1510	2205	2395	2450	2700	425
	16	870	1355		1115	1680	2310	2515	2565	2855	
LPI	91/28	970	1140		1110	1260	2195	2375	2450	2635	
20Plus,	11 ⁷ / ₈ ⁸	970	1275	1 ¹ / ₂	1160	1485	2330	2525	2595	2830	425
LPI	14 ⁸	970	1395		1200	1680	2455	2665	2725	3005	425
20x4	16 ⁸	970	1510		1240	1870	2570	2795	2850	3175	
	91/29	970	1140		1110	1260	2195	2375	2450	2635	
LPI	11 ⁷ /8 ⁹	970	1275	1 ¹ / ₂	1160	1485	2330	2525	2595	2830	525
32Plus	14 ⁹	970	1395		1200	1680	2455	2665	2725	3005	525
	16 ⁹	970	1510		1240	1870	2570	2795	2850	3175	
	91/2	1185	1340		1305	1340	2900	3095	2940	3195	
	11 ⁷ /8 ¹⁰	1245	1510	1 ¹ / ₂	1595	1625	3025	3340	3120	3515	
	14 ¹⁰	1300	1660		1595	1875	3140	3565	3280	3805	
LPI	16 ¹⁰	1350	1800		1595	2115	3245	3775	3435	4080	525 ⁷
42Plus	18	1500	2305		1690	2555	3450	4285	3850	4625	525
	20	1500	2450	21/2	1690	2795	3450	4410	3850	4835	
	22	1500	2595		1690	3030	3450	4530	3850	5030	
	24	1500	2705		1690	3270	3450	4640	3850	5210	
	91/2	1335	1650		1600	1745	3400	3710	3515	3840	
	11 ⁷ / ₈	1370	1820	1 ¹ / ₂	1690	2055	3420	4000	3635	4210	
	14	1385	1970] [1845	2330	3435	4260	3745	4540	
LPI	16	1400	2110	1	1985	2585	3450	4505	3850	4855	615
52Plus	18	1700	2490		2130	2845	3450	4750	3850	5165	013
	20	1700	2675	2 ¹ / ₂	2130	3105	3450	4990	3850	5475]
	22	1700	2865]	2130	3360	3450	5235	3850	5790	
	24	1700	3055		2130	3620	3450	5480	3850	6100	

For **SI**: 1 inch = 25.4 mm, 1 lb = 4.448 N, 1 lb/in = 0.175 N/mm.

See Notes for Table 3 on the following page.

TABLE 3 (Continued)—REFERENCE DESIGN REACTIONS AND FLANGE BEARING CAPACITIES^{1,2,3,4}

			END	REACTION	(lbf)		INT	ERMEDIATE	REACTION	(lbf)	
10107	JOIST	Mi	nimum Bear	ing		n Bearing in.)		Bearing ⁵ 2 in.)		n Bearing ₂ in.)	FLANGE
JOIST SERIES	DEPTH	Web St	iffeners	Minimum	Web St	iffeners	Web St	iffeners	Web St	iffeners	COMPRESSION
	(in)	NO	YES 6	Bearing Length (in)	NO	YES 6	NO	YES ⁶	NO	YES 6	PERP-TO-GRAIN (psi)
					L	VL FLANGE:	S				
LPI 26	9 ¹ / ₂	800	1075	1 ¹ / ₂	980	1115	1790	2065	2120	2390	550
LF120	11 ⁷ / ₈	800	1170	1 /2	1015	1290	1860	2185	2180	2465	330
	9 ¹ / ₂	840	1100		1040	1230	1855	2085	2195	2415	
LPI 30	11 ⁷ / ₈	840	1210	11/2	1070	1430	1920	2230	2255	2510	550
LFI30	14	840	1305	1 72	1100	1605	1985	2360	2305	2595	330
	16	840	1395		1125	1775	2045	2485	2360	2680	
	11 ⁷ / ₈	1025	1500		1290	1615	2500	3105	2835	3470	
	14	1025	1515	1 ¹ / ₂	1325	1830	2500	3205	2835	3565	
	16	1025	1525		1360	2020	2500	3305	2835	3655	
LPI 36	18	1175	1800		1395	2185	2500	3405	2835	3750	550
	20	1185	1860	01/	1430	2320	2500	3500	2835	3840	
	22	1200	1915	21/2	1465	2435	2500	3600	2835	3930	
	24	1215	1960		1500	2525	2500	3700	2835	4025	
	11 ⁷ / ₈	1145	1660		1515	2055	3130	3860	3670	4060	
	14	1145	1755	1 ¹ / ₂	1535	2330	3130	4055	3670	4300	
	16	1145	1845		1555	2585	3130	4245	3670	4525	
LPI 56	18	1315	2300		1575	2845	3130	4435	3670	4750	550
	20	1325	2455	2 ¹ / ₂	1595	3105	3130	4620	3670	4975	
	22	1335	2610	2./5	1615	3360	3130	4810	3670	5200	
	24	1340	2770		1635	3620	3130	5000	3670	5430	
	9 ¹ / ₂	840	1100		1040	1230	1855	2085	2195	2415	
I DI 450	11 ⁷ / ₈	840	1210	41/	1070	1430	1920	2230	2255	2510	550
LPI 450	14	840	1305	1 ¹ / ₂	1100	1605	1985	2360	2305	2595	550
	16	840	1395		1125	1775	2045	2485	2360	2680	1
	91/2	880	1125		1095	1340	2065	2300	2265	2500	
1 DI 500	11 ⁷ / ₈	880	1245	41/	1120	1565	2120	2485	2400	2735	550
LPI 530	14	880	1350	1 ¹ / ₂	1145	1765	2165	2655	2525	2945	550
	16	880	1450		1165	1955	2210	2810	2640	3140	1

For **SI**: 1 inch = 25.4 mm, 1 lb = 4.448 N, 1 lb/in = 0.175 N/mm.

¹The reference design values are for dry conditions of use only. Dry use applies to products installed in dry covered and well ventilated interior conditions in which the in-service moisture content of lumber does not exceed 16%.

²Reference design values are for normal load duration. Adjustments to the tabulated reference design reaction values must be made as applicable, in accordance with Sections 4.1.1 through 4.1.5 of this report, and corresponding requirements must be met. Reference design reaction values are permitted to be adjusted for other load durations in accordance with the code, provided the tabulated flange compression perpendicular-to grain values are not exceeded. Tabulated flange compression perpendicular-to-grain values must not be increased for duration

³ The applied flange compression perpendicular-to-grain stress must be calculated based on the reaction divided by the bearing length and net flange width. To determine the net flange width, subtract 0.25 inches from the flange width of the LPI 18, LPI 20Plus, LPI 32Plus, LPI 32Plus, LPI 42Plus, and LPI 52Plus, or subtract 0.10 inches from the flange width of the LPI 26, LPI 30, LPI 36, LPI 56, LPI 450 and LPI 530. The applied flange compression perpendicular-to-grain based on net flange width must also not exceed the bearing capacity of the supporting material. ⁴Reaction Capacity may be linearly interpolated between the minimum and maximum bearing length values. Bearing lengths longer than the maximum do not further increase Reaction Capacity.

⁵For all series except the LPI 26 and LPI 30, the Intermediate Reaction may be linearly extrapolated a minimum bearing length of 3 inches, based on the $3^{1}/_{2}$ -inch and $5^{1}/_{2}$ -inch values.

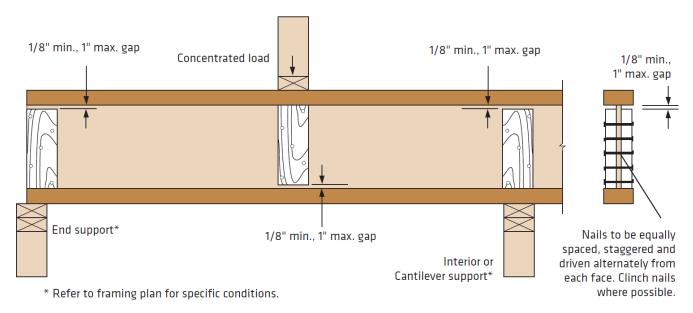
⁶See Figure 1 for required web stiffener details.

The reference design compression perpendicular-to-grain of flanges of the LPI 42Plus stamped with mill number 1069 (Red Bluff, CA) is

permitted to be increased to 615 psi. ⁸The 9¹/₂, 11⁷/₈, 14 and 16 inch LPI 20Plus stamped with mill number 1068 (Larouche, QC), and the 9¹/₂, 11⁷/₈, and 14 inch LPI 20Plus stamped with mill number 1077 (St. Prime, QC) shall be permitted to be designed as the PRI-40 in accordance with ESR-1405.

9The 91/2, 117/8, 14 and 16 inch LPI 32Plus stamped with mill number 1068 (Larouche, QC), and the 91/2, 117/8, and 14 inch LPI 32Plus stamped with mill number 1077 (St. Prime, QC) shall be permitted to be designed as the PRI-60 I-joists in accordance with ESR-1405.

10 The 117/8, 14 and 16 inch LPI 42 Plus stamped with mill number 1068 (Larouche, QC) or 1069 (Red Bluff, CA), and the 117/8 and 14 inch LPI 42Plus stamped with mill number 1077 (St. Prime, QC) are recognized as the PRI-80 in accordance with ESR-1405.



For **SI**: 1 in. = 25.4 mm

1 Web stiffeners, when required, must be installed in pairs – one to each side of the web. In addition to the requirements noted in Table 3. ²Web stiffeners should be cut to fit between the flanges of the I-joist, leaving a minimum ¹/₈-inch gap (1-inch maximum). At bearing locations, the stiffeners should be installed tight to the bottom flange with the gap to the top flange. At locations of concentrated loads, the stiffeners should be installed tight to the top flange with the gap to the bottom flange.

FIGURE 1—I-JOIST WEB STIFFENER DETAILS

TABLE 4—WEB STIFFENER SCHEDULE

					JOIST SERIES										
		SAWN LUMB	ER FLANGES			LVL FLANGES	i								
	MA A VIRALINA	LPI 18 LPI 20Plus LPI 32Plus	LPI 20x4 LPI 42Plus LPI 52Plus	LPI 26	LPI 30	LPI 36	LPI 56	LPI 450 LPI 530							
JOIST	MAXIMUM STIFFENER			MINIMUM	STIFFENER TH	IICKNESS									
DEPTH	HEIGHT	²³ / ₃₂ "	11/2"	¹⁵ / ₃₂ "	²³ / ₃₂ "	²³ / ₃₂ "	11/2"	²³ / ₃₂ "							
			NAIL SIZE												
		8d Box (2 ¹ / ₂ " x 0.113")	10d Box (3" x 0.128")		8d Box (2 ¹ / ₂ " x 0.113")		10d Box (3" x 0.128")	8d Box (2 ¹ / ₂ " x 0.113")							
		TOTAL NAILS REQUIRED													
91/2"	6 ³ / ₈ "	3	3	3	3	-	-	3							
11 ⁷ / ₈ "	83/4"	3	3	3	3	4	4	3							
14"	10 ⁷ / ₈ "	3	3	=	4	5	5	3							
16"	12 ⁷ / ₈ "	3	3	-	4	6	6	3							
18"	14 ⁷ / ₈ "	-	7	-	7		7	-							
20"	16 ⁷ / ₈ "	-	8	8		8	8	-							
22"	18 ⁷ / ₈ "	-	9	=	-	9	9	-							
24"	20 ⁷ / ₈ "	-	10	-	-	10	10	-							

For **SI**: 1 in = 25.4 mm.

³Web stiffeners should be cut from APA Rated (or equal) OSB or plywood, or from 2x lumber or structural composite lumber.

⁴Web stiffeners should be the same width as the bearing surface, with a minimum of 3¹/₂ inches.

⁵ See Table 4 for minimum stiffener thickness, maximum stiffener height, nail size and total number of nails for each pair of stiffeners.

⁶Nails must be equally spaced, staggered and driven alternately from each face.

TABLE 5—EQUIVALENT SPECIFIC GRAVITY FOR DESIGN OF NAIL CONNECTIONS

JOIST	WITHD	RAWAL	DOWEL I	BEARING							
SERIES	Installed in Edge	Installed in Face	Installed in Edge	Installed in Face							
	!	SAWN LUMBER FLANGES	1								
LPI 18, LPI 20Plus, LPI 20x4		0.42 (SPI	F lumber)								
LPI 32Plus LPI 42Plus		0.46^{3} (SPF MSR lumber with E = 1.8 to 1.9)									
LPI 52Plus		0.50 (SPF MSR lumber	with E = 2.0 and higher)								
<u>.</u>		LVL FLANGES ²									
LPI 26 LPI 30 LPI 36 LPI 56 LPI 450 LPI 530	0.46	0.50	0.50	0.50							

¹Equivalent specific gravity for sawn lumber flanges is in accordance with the NDS for the lumber grade indicated in the parentheses.

TABLE 6—FLANGE FACE NAILING 1

JOIST SERIES	NAIL SIZE	MINIMUM DISTANCE FROM JOIST END	CLOSEST O.C. SPACING
	SAWN LUMBER	R FLANGES 2	
	8d Box (2 ¹ / ₂ " x 0.113") 8d Common (2 ¹ / ₂ " x 0.131")	1″	2"
LPI 18 LPI 20Plus LPI 20x4	10d Box (3" x 0.128") 12d Box (3 ¹ / ₄ " x 0.128")	1"	2"
LPI 32Plus LPI 42Plus LPI 52Plus	10 Common (3" x 0.148") 12d Common (3 ¹ / ₄ " x 0.148") 16d Sinker (3 ¹ / ₄ " x 0.148")	1 ¹ / ₂ "	3"
	16d Box (3 ¹ / ₂ " x 0.135") 16d Common (3 ¹ / ₂ " x 0.162")	11/2"	4"
	LVL FLAN	NGES ³	
	8d Box (2 ¹ / ₂ " x 0.113") 8d Common (2 ¹ / ₂ " x 0.131")	11/2"	3"
I DI GG	10d Box (3" x 0.128") 12d Box (3 ¹ / ₄ " x 0.128")	1 ¹ / ₂ "	3"
LPI 26 LPI 30	10 Common (3" x 0.148") 12d Common (3 ¹ / ₄ " x 0.148") 16d Sinker (3 ¹ / ₄ " x 0.148")	1 ¹ / ₂ "	3"
	16d Box (3 ¹ / ₂ " x 0.135") 16d Common (3 ¹ / ₂ " x 0.162")	NA	NA
	8d Box (2 ¹ / ₂ " x 0.113") 8d Common (2 ¹ / ₂ " x 0.131")	1 ¹ / ₂ "	3"
I DI 20	10d Box (3" x 0.128") 12d Box (3 ¹ / ₄ " x 0.128")	1 ¹ / ₂ "	3"
LPI 36 LPI 56	10 Common (3" x 0.148") 12d Common (3 ¹ / ₄ " x 0.148") 16d Sinker (3 ¹ / ₄ " x 0.148")	11/2"	3"
	16d Box (3 ¹ / ₂ " x 0.135") 16d Common (3 ¹ / ₂ " x 0.162")	1 ¹ / ₂ "	5″
	8d Box (2 ¹ / ₂ " x 0.113") 8d Common (2 ¹ / ₂ " x 0.131")	1 ¹ / ₂ "	3"
LPI 450	10d Box (3" x 0.128") 12d Box (3 ¹ / ₄ " x 0.128")	1 ¹ / ₂ "	3"
LPI 450 LPI 530	10 Common (3" x 0.148") 12d Common (3 ¹ / ₄ " x 0.148") 16d Sinker (3 ¹ / ₄ " x 0.148")	11/2"	3"
	16d Box (3 ¹ / ₂ " x 0.135") 16d Common (3 ¹ / ₂ " x 0.162")	11/2"	5"

For **SI**: 1 in = 25.4 mm.

²Equivalent specific gravity for LVL flanges is in accordance with Table 2 of ICC-ES report <u>ESR-2403</u> for LP[®] SolidStart[®] LVL with a grade of 2250F_b-1.5E and above.

³Equivalent specific gravity for flanges of the LPI 42Plus stamped with mill number 1069 (Red Bluff, CA) is permitted to be increased to 0.50.

¹For two rows of nails into the wide face of flanges, the rows must be offset ¹/₂ inch or more from each other, and staggered.

²Nails into the edges of sawn lumber flanges may be spaced in accordance with the provisions in the NDS.

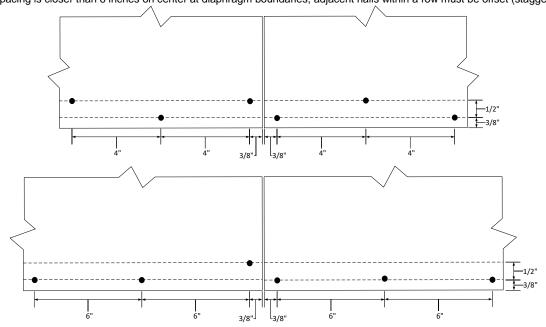
³Nails into the edges of LVL lumber flanges must be spaced in accordance with Table 3 of ICC-ES report ESR-2403.

TABLE 7—ALLOWABLE SHEAR (Pounds Per Foot) FOR HORIZONTAL WOOD STRUCTURAL PANEL DIAPHRAGMS FRAMED WITH LP® SolidStart® I-JOISTS FOR WIND 1 OR SEISMIC LOADING 2,3

				BLOCKED D	IAPHRAGMS	UNBLOCKED	DIAPHRAGMS	
Panel	Common	Minimum Nominal Panel	Minimum Nominal Width of Framing Members at Adjoining	(all cases), at conti parallel to load (Cas	liaphragm boundaries nuous panel edges ses 3 & 4), and at all Cases 5 & 6) 6,7	Nails Spaced 6 in. ma	ax. at supported edges ⁶	
Grade	Nail Size	Thickness	Panel Edges	6	4			
		(in.)	and Boundaries ^{4,5} (in.)		t other panel edges 2, 3, & 4) ⁶	Case 1 (No unblocked edges or continuous joints parallel to load	All other configurations (Cases 2, 3, 4, 5 & 6)	
			(111.)	6	6	joints parallel to load		
	6d ⁸	⁵ / ₁₆	2	185	250	165	125	
	60 °		3	210	280	185	140	
Structural 1	84		2	270	360	240	180	
Grades	80		3	300	400	265	200	
10d		157	2	320	425	285	215	
	100	¹⁵ / ₃₂	3	360	480	320	240	
		5/	2	170	225	150	110	
	6d ⁸	⁵ / ₁₆	3	190	250	170	125	
	60°	³ / ₈	2	185	250	165	125	
		9/8	3	210	280	185	140	
Sheathing,		37	2	240	320	215	160	
single floor		³ / ₈	3	270	360	240	180	
and other	0.1	7,	2	255	340	230	170	
grades covered in	8d	⁷ / ₁₆	3	285	380	255	190	
DOC PS 1		15./	2	270	360	240	180	
and PS 2		¹⁵ / ₃₂	3	300	400	265	200	
		157	2	290	385	255	190	
	40-1	¹⁵ / ₃₂	3	325	430	290	215	
	10d	197	2	320	425	285	215	
		¹⁹ / ₃₂	3	360	480	320	240	

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lbf = 4.448 N, 1 lbf/ft = 0.0146 N/mm.

greater). Fasteners shall be located $^{3}/_{8}$ inch minimum from panel edges. 7 When nail spacing is closer than 6 inches on center at diaphragm boundaries, adjacent nails within a row must be offset (staggered) $^{1}/_{2}$ inch:



⁸⁸d common nails minimum are recommended for roofs due to negative pressures of high winds.

¹For wind load applications, the values in the table above shall be permitted to be multiplied by 1.4.

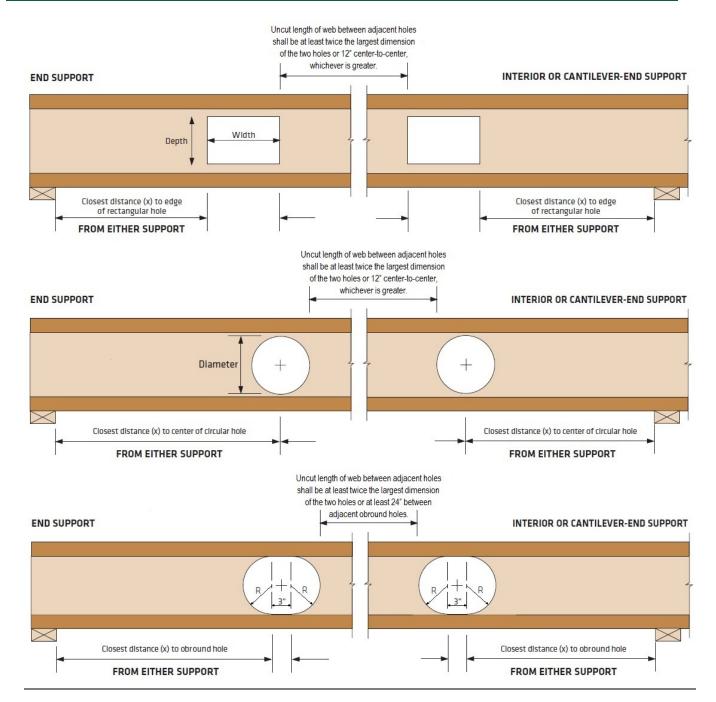
²For shear loads of normal or permanent load duration as defined by the NDS, the values in the table above shall be multiplied by 0.63 or 0.56, respectively.

³The tabulated allowable shear capacities are for I-Joist series with flanges having a specific gravity (G) of 0.50 or higher (see Table 5). For G < 0.50 the allowable shear capacities shall be reduced by multiplying the allowable shear capacities by the Specific Gravity Adjustment Factor = [1-(0.5-G)]. The Specific Gravity Adjustment Factor shall not be greater than 1.

⁴See Table 1 for equivalent minimum nominal framing width of the flanges for LP® SolidStart® I-Joists.

⁵The minimum nominal width of framing members not located at boundaries or adjoining panel edges shall be 2 inches.

⁶Space nails maximum 12 inches o.c. along intermediate framing members (6 inches o.c. when supports are spaced 48 inches o.c. or



¹CUT HOLES CAREFULLY. DO NOT OVERCUT HOLES. DO NOT CUT I-JOIST FLANGES.

²Holes may be placed anywhere within the depth of the web. A minimum 1/4-inch clear distance is recommended between the hole and the flanges.

³Obround holes are (up to) full web-depth holes with semi-circular ends defined by three overlapping circular holes spaced (up to)

⁸Multiple holes may be spaced closer than required in footnote 7 above, provided they fit within the boundary of an acceptable larger hole. Example: two 3-inch round holes aligned parallel to the joist length may be spaced 2 inches apart (clear distance) provided that a 3-inchhigh-by-8-inch-long rectangular, or an 8-inch-diameter circular hole are acceptable for the joist depth at that location and completely

9Except as noted in 4, web holes cannot be located any closer than 1 foot from the inside face of the closest bearing to the critical location of the hole (see figure), without further analysis by a design professional.

^{11/2} inches apart, center-to-center of the holes. Obround holes are not allowed in the LPI 26, LPI 450 and LPI 530 I-Joists (see Table 10). ⁴Circular holes up to 1¹/₂-inch diameter may be placed anywhere in the web.

⁵Perforated "knockouts" may be neglected when locating web holes.

⁶Holes with dimensions larger than 11/₂ inches are not permitted in cantilevers without special engineering.

Multiple holes must have a minimum clear separation along the length of the joist of at least twice the large dimension of the larger adjacent hole or a minimum center-to-center distance of 12 inches, whichever is greater. In addition, the minimum clear separation between adjacent obround holes must not be less than 24 inches.

	JOIST	CLEAR		DISTANC	E FROM	END SU	PPORT (fe	eet-inche	es)	DI	STANCE	FROM IN	TERIOR	SUPPOR	T (feet-in	ches)
JOIST	DEPTH	SPAN		Hc	le Diame	ter (inch	es)				Но	le Diame	ter (inch	es)	•	
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-3"	-	-	-	1'-0"
		10'	1'-0"	1'-0"	1'-4"	-	-	-	1'-0"	1'-0"	1'-0"	2'-6"	-	-	-	1'-11"
	01/ "	12'	1'-0"	1'-0"	2'-6"	-	-	-	1'-10"	1'-0"	1'-7"	3'-9"	-	-	-	3'-2"
	91/2"	14'	1'-0"	1'-2"	3'-9"	-	-	-	3'-0"	1'-0"	2'-10"	5'-0"	-	-	-	4'-5"
		16'	1'-0"	2'-3"	5'-0"	-	-	-	4'-3"	1'-11"	4'-1"	6'-3"	-	-	-	5'-8"
		18'	1'-0"	3'-5"	6'-3"	-	-	-	5'-6"	3'-2"	5'-4"	7'-6"	-	-	-	6'-11"
		20'	2'-0"	4'-7"	7'-7"	-	-	-	6'-9"	4'-5"	6'-7"	8'-11"	-	-	-	8'-2"
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	-	-	1'-0"
		10'	1'-0"	1'-0"	1'-0"	1'-2"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	-	-	1'-11"
		12'	1'-0"	1'-0"	1'-0"	2'-4"	-	-	1'-9"	1'-0"	1'-0"	1'-7"	3'-7"	-	-	3'-2"
	11 ⁷ /8"	14'	1'-0"	1'-0"	1'-1"	3'-6"	-	-	2'-11"	1'-0"	1'-0"	2'-10"	4'-10"	-	-	4'-5"
	11 /8	16'	1'-0"	1'-0"	2'-2"	4'-9"	-	-	4'-2"	1'-0"	2'-0"	4'-1"	6'-1"	-	-	5'-8"
		18'	1'-0"	1'-0"	3'-4"	6'-0"	-	-	5'-4"	1'-3"	3'-3"	5'-4"	7'-4"	-	-	6'-11"
		20'	1'-0"	2'-1"	4'-6"	7'-4"	-	-	6'-8"	2'-6"	4'-6"	6'-7"	8'-8"	-	-	8'-2"
		22'	1'-0"	3'-3"	5'-9"	8'-8"	-	-	7'-11"	3'-9"	5'-9"	7'-10"	10'-1"	-	-	9'-5"
		24'	2'-0"	4'-4"	7'-0"	10'-0"	-	-	9'-3"	5'-0"	7'-0"	9'-1"	11'-6"	-	-	10'-10"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	-	1'-3"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	-	1'-4"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	-	2'-6"
LPI 18		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	-	2'-5"	1'-0"	1'-0"	1'-0"	1'-8"	3'-8"	-	3'-9"
_		14'	1'-0"	1'-0"	1'-0"	1'-3"	3'-7"	-	3'-8"	1'-0"	1'-0"	1'-0"	2'-11"	4'-11"	-	5'-0"
		16'	1'-0"	1'-0"	1'-0"	2'-4"	4'-10"	-	4'-11"	1'-0"	1'-0"	2'-3"	4'-2"	6'-2"	-	6'-3"
	14"	18'	1'-0"	1'-0"	1'-3"	3'-6"	6'-1"	-	6'-2"	1'-0"	1'-6"	3'-6"	5'-5"	7'-5"	-	7'-6"
		20'	1'-0"	1'-0"	2'-4"	4'-8"	7'-5"	-	7'-6"	1'-0"	2'-9"	4'-9"	6'-8"	8'-8"	-	8'-10"
		22'	1'-0"	1'-3"	3'-6"	5'-11"	8'-8"	-	8'-10"	2'-1"	4'-0"	6'-0"	7'-11"	10'-2"	-	10'-3"
		24'	1'-0"	2'-4"	4'-7"	7'-2"	10'-1"	-	10'-2"	3'-4"	5'-3"	7'-3"	9'-2"	11'-7"	-	11'-9"
		26'	1'-4"	3'-5"	5'-10"	8'-5"	11'-5"	-	11'-7"	4'-7"	6'-6"	8'-6"	10'-5"	-	-	-
		28'	2'-5"	4'-7"	7'-0"	9'-9"	12'-10"	-	12'-11"	5'-10"	7'-9"	9'-9"	11'-8"	-	-	-
		30'	3'-6"	5'-9"	8'-3"	11'-0"	14'-2"	-	14'-4"	7'-1"	9'-0"	11'-0"	13'-0"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-7"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	2'-10"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	2'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	3'-9"	4'-1"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	3'-8"	4'-2"	1'-0"	1'-0"	1'-0"	1'-2"	3'-1"	5'-0"	5'-4"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	4'-11"	5'-5"	1'-0"	1'-0"	1'-0"	2'-5"	4'-4"	6'-3"	6'-7"
	16"	18'	1'-0"	1'-0"	1'-0"	1'-6"	3'-8"	6'-3"	6'-9"	1'-0"	1'-0"	1'-9"	3'-8"	5'-7"	7'-6"	7'-11"
		20'	1'-0"	1'-0"	1'-0"	2'-7"	4'-10"	7'-6"	8'-1"	1'-0"	1'-1"	3'-0"	4'-11"	6'-10"	8'-10"	9'-5"
		22'	1'-0"	1'-0"	1'-7"	3'-8"	6'-1"	8'-10"	9'-5"	1'-0"	2'-4"	4'-3"	6'-2"	8'-1"	10'-4"	10'-10"
		24'	1'-0"	1'-0"	2'-8"	4'-10"	7'-4"	10'-3"	10'-10"	1'-8"	3'-7"	5'-6"	7'-5"	9'-4"	11'-9"	-
		26'	1'-0"	1'-8"	3'-9"	6'-1"	8'-8"	11'-7"	12'-2"	2'-11"	4'-10"	6'-9"	8'-8"	10'-7"	-	-
		28'	1'-0"	2'-9"	4'-11"	7'-3"	9'-11"	13'-0"	13'-7"	4'-2"	6'-1"	8'-0"	9'-11"	11'-10"	-	-
	İ	30'	1'-9"	3'-10"	6'-1"	8'-6"	11'-3"	14'-4"	-	5'-5"	7'-4"	9'-3"	11'-2"	13'-3"	-	-

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTANC	CE FROM	END SU	PPORT (fe	et-inche	s)	DI	STANCE	FROM IN	TERIOR	SUPPOR	T (feet-in	nches)
JOIST SERIES	DEPTH	SPAN		Но	ole Diame	ter (inch	es)				Но	le Diame	ter (inch	es)		
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"
		10'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-6"
	01/ "	12'	1'-0"	1'-0"	1'-0"	-	-	-	1'-3"	1'-0"	1'-0"	1'-0"	-	-	-	2'-9"
	91/2"	14'	1'-0"	1'-0"	1'-0"	-	-	-	2'-5"	1'-0"	1'-0"	2'-0"	-	-	-	4'-0"
		16'	1'-0"	1'-0"	1'-4"	-	-	-	3'-7"	1'-0"	1'-4"	3'-3"	-	-	-	5'-3"
		18'	1'-0"	1'-0"	2'-5"	-	-	-	4'-10"	1'-0"	2'-7"	4'-6"	-	-	-	6'-6"
		20'	1'-0"	1'-4"	3'-7"	-	-	-	6'-1"	1'-10"	3'-10"	5'-9"	-	-	-	7'-9"
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-5"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-2"	1'-0"	1'-0"	1'-0"	1'-2"	-	-	2'-8"
Ins	11 ⁷ /8"	14'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	2'-4"	1'-0"	1'-0"	1'-0"	2'-5"	-	-	3'-11"
52P	11.78	16'	1'-0"	1'-0"	1'-0"	1'-9"	-		3'-6"	1'-0"	1'-0"	2'-1"	3'-8"	-	-	5'-2"
i i		18'	1'-0"	1'-0"	1'-1"	2'-11"	-	-	4'-8"	1'-0"	1'-9"	3'-4"	4'-11"	-	-	6'-5"
, L		20'	1'-0"	1'-0"	2'-2"	4'-1"	-	-	5'-11"	1'-5"	3'-0"	4'-7"	6'-2"	-	-	7'-8"
32Plus, LPI 42Plus, LPI 52Plus		22'	1'-0"	1'-6"	3'-4"	5'-3"	-	-	7'-3"	2'-8"	4'-3"	5'-10"	7'-5"	-	-	8'-11"
42F		24'	1'-0"	2'-8"	4'-6"	6'-6"	-		8'-6"	3'-11"	5'-6"	7'-1"	8'-8"	-	-	10'-2"
<u>-</u>	-	8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"
s, l		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	2'-1"
₹		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	-	3'-4"
32		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	-	3'-1"	1'-0"	1'-0"	1'-0"	1'-6"	2'-10"	-	4'-7"
LPI 20Plus, LPI 20x4, LPI		16'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	4'-4"	1'-0"	1'-0"	1'-4"	2'-9"	4'-1"	-	5'-10"
4,	14"	18'	1'-0"	1'-0"	1'-0"	1'-10"	3'-4"	-	5'-7"	1'-0"	1'-3"	2'-7"	4'-0"	5'-4"	-	7'-1"
203	1-7	20'	1'-0"	1'-0"	1'-5"	2'-11"	4'-7"	-	6'-10"	1'-2"	2'-6"	3'-10"	5'-3"	6'-7"	-	8'-4"
<u>-</u>		22'	1'-0"	1'-0"	2'-6"	4'-1"	5'-9"	-	8'-2"	2'-5"	3'-9"	5'-1"	6'-6"	7'-10"	-	9'-8"
S,		24'	1'-0"	2'-1"	3'-7"	5'-3"	7'-0"	-	9'-6"	3'-8"	5'-0"	6'-4"	7'-9"	9'-1"	-	11'-1"
l ⊩		26'	1'-8"	3'-2"	4'-9"	6'-5"	8'-3"	-	10'-10"	4'-11"	6'-3"	7'-7"	9'-0"	10'-4"	-	12'-6"
20		28'	2'-9"	4'-4"	5'-11"	7'-8"	9'-7"	-	12'-3"	6'-2"	7'-6"	8'-10"	10'-3"	11'-7"	-	-
4		30'	3'-11"	5'-6"	7'-2"	8'-11"	10'-10"	-	13'-7"	7'-5"	8'-9"	10'-1"	11'-6"	12'-10"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	3'-8"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-8"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-2"	4'-11"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	2'-7"	4'-11"	1'-0"	1'-0"	1'-0"	2'-1"	3'-3"	4'-5"	6'-2"
	16"	18'	1'-0"	1'-0"	1'-0"	1'-1"	2'-4"	3'-9"	6'-2"	1'-0"	1'-0"	2'-1"	3'-4"	4'-6"	5'-8"	7'-5"
		20'	1'-0"	1'-0"	1'-0"	2'-2"	3'-6"	5'-0"	7'-6"	1'-0"	2'-2"	3'-4"	4'-7"	5'-9"	6'-11"	8'-10"
		22'	1'-0"	1'-0"	1'-11"	3'-3"	4'-8"	6'-3"	8'-10"	2'-3"	3'-5"	4'-7"	5'-10"	7'-0"	8'-2"	10'-3"
		24'	1'-0"	1'-9"	3'-0"	4'-5"	5'-11"	7'-6"	10'-2"	3'-6"	4'-8"	5'-10"	7'-1"	8'-3"	9'-5"	11'-8"
		26'	1'-6"	2'-10"	4'-2"	5'-7"	7'-1"	8'-9"	11'-6"	4'-9"	5'-11"	7'-1"	8'-4"	9'-6"	10'-8"	-
		28'	2'-7"	3'-11"	5'-4"	6'-10"	8'-4"	10'-1"	12'-11"	6'-0"	7'-2"	8'-4"	9'-7"	10'-9"	11'-11"	-
		30'	3'-8"	5'-1"	6'-6"	8'-0"	9'-8"	11'-5"	14'-4"	7'-3"	8'-5"	9'-7"	10'-10"	12'-0"	13'-4"	-

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTANCE FROM END SUPPORT (feet-inches)							DISTANCE FROM INTERIOR SUPPORT (feet-inches)						
JOIST SERIES	DEPTH	SPAN			Hole D	iameter (i	inches)						iameter (i			•	
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	2"	4"	6"	8"	10"	12"	14"	
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	4'-3"	
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-7"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-6"	
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	4'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	4'-3"	6'-9"	
	40"	22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	6'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-6"	8'-0"	
	18"	24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	4'-0"	7'-3"	1'-0"	1'-0"	1'-0"	1'-8"	4'-2"	6'-9"	9'-3"	
		26'	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	5'-2"	8'-6"	1'-0"	1'-0"	1'-0"	2'-11"	5'-5"	8'-0"	10'-6"	
		28'	1'-0"	1'-0"	1'-0"	1'-0"	3'-5"	6'-5"	9'-9"	1'-0"	1'-0"	1'-8"	4'-2"	6'-8"	9'-3"	11'-9"	
		30'	1'-0"	1'-0"	1'-0"	1'-9"	4'-6"	7'-7"	11'-1"	1'-0"	1'-0"	2'-11"	5'-5"	7'-11"	10'-6"	13'-1"	
		32'	1'-0"	1'-0"	1'-0"	2'-9"	5'-8"	8'-10"	12'-5"	1'-0"	1'-8"	4'-2"	6'-8"	9'-2"	11'-9"	14'-6"	
		34'	1'-0"	1'-0"	1'-2"	3'-11"	6'-10"	10'-1"	13'-9"	1'-0"	2'-11"	5'-5"	7'-11"	10'-5"	13'-0"	16'-0"	
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-9"	
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-0"	
	"	22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	3'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	4'-0"	6'-3"	
	20"	24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-11"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-3"	7'-6"	
		26'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-5"	6'-2"	1'-0"	1'-0"	1'-0"	1'-11"	4'-2"	6'-6"	8'-9"	
<u>s</u>		28'	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-6"	7'-4"	1'-0"	1'-0"	1'-0"	3'-2"	5'-5"	7'-9"	10'-0"	
52Plus		30'	1'-0"	1'-0"	1'-0"	1'-0"	3'-1"	5'-8"	8'-7"	1'-0"	1'-0"	2'-2"	4'-5"	6'-8"	9'-0"	11'-3"	
52		32'	1'-0"	1'-0"	1'-0"	1'-9"	4'-2"	6'-11"	9'-10"	1'-0"	1'-2"	3'-5"	5'-8"	7'-11"	10'-3"	12'-6"	
LPI 42Plus, LPI		34'	1'-0"	1'-0"	1'-0"	2'-9"	5'-4"	8'-1"	11'-2"	1'-0"	2'-5"	4'-8"	6'-11"	9'-2"	11'-6"	13'-9"	
JS,		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	
Į.		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	
142		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-6"	
-		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	4'-9"	
		24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	4'-0"	6'-0"	
		26'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-4"	1'-0"	1'-0"	1'-0"	1'-1"	3'-2"	5'-3"	7'-3"	
	22"	28'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-2"	5'-6"	1'-0"	1'-0"	1'-0"	2'-4"	4'-5"	6'-6"	8'-6"	
		30'	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-3"	6'-9"	1'-0"	1'-0"	1'-7"	3'-7"	5'-8"	7'-9"	9'-9"	
		32'	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-5"	7'-11"	1'-0"	1'-0"	2'-10"	4'-10"	6'-11"	9'-0"	11'-0"	
		34'	1'-0"	1'-0"	1'-0"	1'-11"	4'-2"	6'-7"	9'-2"	1'-0"	2'-0"	4'-1"	6'-1"	8'-2"	10'-3"	12'-3"	
		36'	1'-0"	1'-0"	1'-0"	3'-0"	5'-3"	7'-9"	10'-5"	1'-2"	3'-3"	5'-4"	7'-4"	9'-5"	11'-6"	13'-6"	
		38'	1'-0"	1'-0"	1'-10"	4'-1"	6'-5"	8'-11"	11'-8"	2'-5"	4'-6"	6'-7"	8'-7"	10'-8"	12'-9"	14'-9"	
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	3'-7"	
		24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	2'-11"	4'-10"	
		26'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-2"	6'-1"	
	24"	28'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-1"	1'-0"	1'-0"	1'-0"	1'-8"	3'-7"	5'-5"	7'-4"	
		30'	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	3'-1"	5'-3"	1'-0"	1'-0"	1'-0"	2'-11"	4'-10"	6'-8"	8'-7"	
		32'	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	4'-2"	6'-5"	1'-0"	1'-0"	2'-3"	4'-2"	6'-1"	7'-11"	9'-10"	
		34'	1'-0"	1'-0"	1'-0"	1'-2"	3'-2"	5'-4"	7'-7"	1'-0"	1'-8"	3'-6"	5'-5"	7'-4"	9'-2"	11'-1"	
		36'	1'-0"	1'-0"	1'-0"	2'-3"	4'-3"	6'-6"	8'-10"	1'-0"	2'-11"	4'-9"	6'-8"	8'-7"	10'-5"	12'-4"	
		38'	1'-0"	1'-0"	1'-4"	3'-4"	5'-5"	7'-8"	10'-0"	2'-3"	4'-2"	6'-0"	7'-11"	9'-10"	11'-8"	13'-7"	

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

				DISTANC	E EDOM	I END SII	PPORT (1	ioot-inch	06)	DI	STANCE	EDOM IN	TEDIOD	SUPPOR	T (foot-in	chos)
JOIST	JOIST DEPTH	CLEAR SPAN				eter (inch	•	eet-men		DI.		le Diame			i (ieet-iiii	cries)
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	-
		10'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-9"	-	-	-	-
	91/2"	12'	1'-0"	1'-0"	1'-7"	-	-	-	-	1'-0"	1'-0"	3'-0"	-	-	-	-
		14'	1'-0"	1'-0"	2'-9"	-	-	-	-	1'-0"	1'-11"	4'-3"	-	-	-	-
		16'	1'-0"	1'-2"	4'-0"	-	-	-	-	1'-0"	3'-2"	5'-6"	-	-	-	-
		18'	1'-0"	2'-3"	5'-2"	-	-	-	-	2'-0"	4'-5"	6'-9"	-	-	-	-
56		20'	1'-0"	3'-5"	6'-6"	-	-	-	-	3'-3"	5'-8"	8'-0"	-	-	-	-
LPI 26		6' 8'	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	-	-	-	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	-	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	2'-3"	-	-	-
		12'	1'-0"	1'-0"	1'-0"	2'-2"	-	-	-	1'-0"	1'-0"	1'-7"	3'-6"	-	-	-
	11 ⁷ /8"	14'	1'-0"	1'-0"	1'-2"	3'-4"	_	-		1'-0"	1'-0"	2'-10"	4'-9"		-	-
	11.76	16'	1'-0"	1'-0"	2'-3"	4'-7"	_	_	_	1'-0"	2'-2"	4'-1"	6'-0"	_	_	_
		18'	1'-0"	1'-3"	3'-5"	5'-10"	-	-	-	1'-7"	3'-5"	5'-4"	7'-3"	-	-	-
		20'	1'-0"	2'-4"	4'-7"	7'-2"	-	-	-	2'-10"	4'-8"	6'-7"	8'-6"	-	-	-
		22'	1'-4"	3'-5"	5'-9"	8'-6"	-	-	-	4'-1"	5'-11"	7'-10"	9'-11"	-	-	-
		24'	2'-5"	4'-7"	7'-0"	9'-10"	-	-	-	5'-4"	7'-2"	9'-1"	11'-4"	-	-	-
		6'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-9"
		10'	1'-0"	1'-0"	1'-0"	-	-	-	2'-0"	1'-0"	1'-0"	1'-0"	-	-	-	3'-0"
	91/2"	12'	1'-0"	1'-0"	1'-0"	-	-	-	3'-2"	1'-0"	1'-0"	1'-0"	-	-	-	4'-3"
		14'	1'-0"	1'-0"	1'-0"	-	-	-	4'-5"	1'-0"	1'-0"	2'-0"	-	-	-	5'-6"
		16'	1'-0"	1'-0"	1'-4"	-	-	-	5'-9"	1'-0"	1'-4"	3'-3"	-	-	-	6'-9"
		18'	1'-0"	1'-0"	2'-5"	-	-	-	7'-1"	1'-0"	2'-7"	4'-6"	-	-	-	8'-3"
		20'	1'-0"	1'-4"	3'-7"	- 41.0"	-	-	8'-5"	1'-10"	3'-10"	5'-9"	- 41.0"	-	-	9'-8"
		6' 8'	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	-	-	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	-	-	1'-0" 1'-9"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	3'-0"
		12'	1'-0"	1'-0"	1'-0"	1'-0"			3'-2"	1'-0"	1'-0"	1'-0"	1'-2"		-	4'-3"
	11 ⁷ / ₈ "	14'	1'-0"	1'-0"	1'-0"	1'-0"	_	-	4'-5"	1'-0"	1'-0"	1'-0"	2'-5"	-	-	5'-6"
	11.76	16'	1'-0"	1'-0"	1'-0"	1'-9"	_	_	5'-9"	1'-0"	1'-0"	2'-1"	3'-8"	_	-	6'-9"
		18'	1'-0"	1'-0"	1'-1"	2'-11"	-	-	7'-1"	1'-0"	1'-9"	3'-4"	4'-11"	-	-	8'-3"
		20'	1'-0"	1'-0"	2'-2"	4'-1"	-	-	8'-5"	1'-5"	3'-0"	4'-7"	6'-2"	-	-	9'-8"
		22'	1'-0"	1'-6"	3'-4"	5'-3"	-	-	9'-9"	2'-8"	4'-3"	5'-10"	7'-5"	-	-	-
		24'	1'-0"	2'-8"	4'-6"	6'-6"	-	-	11'-2"	3'-11"	5'-6"	7'-1"	8'-8"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-9"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	3'-0"
LPI 30		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	3'-2"	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	-	4'-3"
≗		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	-	4'-5"	1'-0"	1'-0"	1'-0"	1'-6"	2'-10"	-	5'-6"
	4	16'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	5'-9"	1'-0"	1'-0"	1'-4"	2'-9"	4'-1"	-	6'-9"
	14"	18'	1'-0"	1'-0"	1'-0"	1'-10"	3'-4"	-	7'-1"	1'-0"	1'-3"	2'-7"	4'-0"	5'-4"	-	8'-3"
		20' 22'	1'-0" 1'-0"	1'-0" 1'-0"	1'-5" 2'-6"	2'-11" 4'-1"	4'-7" 5'-9"	-	8'-5" 9'-9"	1'-2" 2'-5"	2'-6" 3'-9"	3'-10" 5'-1"	5'-3" 6'-6"	6'-7" 7'-10"	-	9'-8"
		24'	1'-0"	2'-1"	3'-7"	5'-3"	7'-0"	-	11'-2"	3'-8"	5'-0"	6'-4"	7'-9"	9'-1"	-	-
		26'	1'-8"	3'-2"	4'-9"	6'-5"	8'-3"	-	12'-6"	4'-11"	6'-3"	7'-7"	9'-0"	10'-4"	-	_
		28'	2'-9"	4'-4"	5'-11"	7'-8"	9'-7"	-	-	6'-2"	7'-6"	8'-10"	10'-3"	11'-7"	-	-
		30'	3'-11"	5'-6"	7'-2"	8'-11"	10'-10"	-	-	7'-5"	8'-9"	10'-1"	11'-6"	12'-10"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-2"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	4'-3"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-5"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-2"	5'-6"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	2'-7"	5'-9"	1'-0"	1'-0"	1'-0"	2'-1"	3'-3"	4'-5"	6'-9"
	16"	18'	1'-0"	1'-0"	1'-0"	1'-1"	2'-4"	3'-9"	7'-1"	1'-0"	1'-0"	2'-1"	3'-4"	4'-6"	5'-8"	8'-3"
		20'	1'-0"	1'-0"	1'-0"	2'-2"	3'-6"	5'-0"	8'-5"	1'-0"	2'-2"	3'-4"	4'-7"	5'-9"	6'-11"	9'-8"
		22'	1'-0"	1'-0"	1'-11"	3'-3"	4'-8"	6'-3"	9'-9"	2'-3"	3'-5"	4'-7"	5'-10"	7'-0"	8'-2"	-
		24'	1'-0"	1'-9"	3'-0"	4'-5"	5'-11"	7'-6"	11'-2"	3'-6"	4'-8"	5'-10"	7'-1"	8'-3"	9'-5"	-
		26'	1'-6"	2'-10"	4'-2"	5'-7"	7'-1"	8'-9"	12'-6"	4'-9"	5'-11"	7'-1"	8'-4"	9'-6"	10'-8"	-
		28'	2'-7"	3'-11"	5'-4"	6'-10"	8'-4"	10'-1"	-	6'-0"	7'-2"	8'-4"	9'-7"	10'-9"	11'-11"	-
		30'	3'-8"	5'-1"	6'-6"	8'-0"	9'-8"	11'-5"	-	7'-3"	8'-5"	9'-7"	10'-10"	12'-0"	13'-4"	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

LOIGT	JOIST	CLEAR		DISTANC	E FROM	END SU	PPORT (1	eet-inch	es)	DI	STANCE	FROM IN	TERIOR	SUPPOR	T (feet-in	ches)
JOIST SERIES	DEPTH	SPAN		Ho	le Diame	ter (inch	es)		01		Ho	le Diame	ter (inch	es)		01
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-3"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-4"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	2'-6"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	2'-6"	1'-0"	1'-0"	1'-0"	1'-7"	-	1	3'-9"
	11 ⁷ / ₈ "	14'	1'-0"	1'-0"	1'-0"	1'-2"	-	•	3'-8"	1'-0"	1'-0"	1'-0"	2'-10"	-	•	5'-0"
	11./8	16'	1'-0"	1'-0"	1'-0"	2'-3"	-	•	4'-11"	1'-0"	1'-0"	1'-8"	4'-1"	-	•	6'-3"
		18'	1'-0"	1'-0"	1'-0"	3'-5"	-	-	6'-3"	1'-0"	1'-0"	2'-11"	5'-4"	-	-	7'-6"
		20'	1'-0"	1'-0"	1'-8"	4'-7"	-	-	7'-6"	1'-0"	1'-8"	4'-2"	6'-7"	-	1	8'-10"
		22'	1'-0"	1'-0"	2'-10"	5'-10"	-	-	8'-10"	1'-0"	2'-11"	5'-5"	7'-10"	-	-	10'-4"
		24'	1'-0"	1'-2"	3'-11"	7'-1"	-	•	10'-3"	1'-8"	4'-2"	6'-8"	9'-1"	-	·	11'-9"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-3"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-4"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	2'-6"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	2'-6"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	-	3'-9"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	-	3'-8"	1'-0"	1'-0"	1'-0"	1'-4"	3'-6"	-	5'-0"
ω.		16'	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	-	4'-11"	1'-0"	1'-0"	1'-0"	2'-7"	4'-9"	-	6'-3"
1 56	14"	18'	1'-0"	1'-0"	1'-0"	1'-8"	4'-2"	-	6'-3"	1'-0"	1'-0"	1'-9"	3'-10"	6'-0"	-	7'-6"
I-PI	14	20'	1'-0"	1'-0"	1'-0"	2'-9"	5'-5"	-	7'-6"	1'-0"	1'-0"	3'-0"	5'-1"	7'-3"	-	8'-10"
LPI 36,		22'	1'-0"	1'-0"	1'-7"	3'-11"	6'-8"	-	8'-10"	1'-0"	2'-2"	4'-3"	6'-4"	8'-6"	-	10'-4"
ᆿ		24'	1'-0"	1'-0"	2'-8"	5'-1"	7'-11"	-	10'-3"	1'-4"	3'-5"	5'-6"	7'-7"	9'-9"	-	11'-9"
_		26'	1'-0"	1'-5"	3'-9"	6'-4"	9'-2"	-	11'-7"	2'-7"	4'-8"	6'-9"	8'-10"	11'-0"	-	-
		28'	1'-0"	2'-6"	4'-11"	7'-7"	10'-6"	-	13'-0"	3'-10"	5'-11"	8'-0"	10'-1"	12'-4"	-	-
		30'	1'-4"	3'-7"	6'-1"	8'-9"	11'-10"	-	14'-4"	5'-1"	7'-2"	9'-3"	11'-4"	13'-10"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	2'-6"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	2'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	3'-9"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	3'-8"	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	4'-0"	5'-0"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	3'-7"	4'-11"	1'-0"	1'-0"	1'-0"	1'-7"	3'-5"	5'-3"	6'-3"
	16"	18'	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	4'-10"	6'-3"	1'-0"	1'-0"	1'-0"	2'-10"	4'-8"	6'-6"	7'-6"
	16	20'	1'-0"	1'-0"	1'-0"	1'-7"	3'-9"	6'-1"	7'-6"	1'-0"	1'-0"	2'-3"	4'-1"	5'-11"	7'-9"	8'-10"
		22'	1'-0"	1'-0"	1'-0"	2'-9"	4'-11"	7'-5"	8'-10"	1'-0"	1'-8"	3'-6"	5'-4"	7'-2"	9'-0"	10'-4"
		24'	1'-0"	1'-0"	1'-9"	3'-10"	6'-1"	8'-8"	10'-3"	1'-0"	2'-11"	4'-9"	6'-7"	8'-5"	10'-3"	11'-9"
		26'	1'-0"	1'-0"	2'-10"	5'-0"	7'-4"	10'-0"	11'-7"	2'-3"	4'-2"	6'-0"	7'-10"	9'-8"	11'-8"	-
		28'	1'-0"	1'-11"	4'-0"	6'-2"	8'-7"	11'-4"	13'-0"	3'-6"	5'-5"	7'-3"	9'-1"	10'-11"	13'-2"	-
		30'	1'-0"	3'-0"	5'-1"	7'-5"	9'-11"	12'-8"	14'-4"	4'-9"	6'-8"	8'-6"	10'-4"	12'-2"	14'-7"	-

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTANC	E FROM I	END SUP	PORT (fe	et-inches)	DIS	STANCE F	ROM INT	ERIOR SI	UPPORT	(feet-inch	nes)
JOIST SERIES	DEPTH	SPAN			Hole D	iameter (i	inches)		,				iameter (i			
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	2"	4"	6"	8"	10"	12"	14"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	4'-3"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-7"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-6"
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	4'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	4'-3"	6'-9"
	18"	22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	6'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-6"	8'-0"
	10	24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	4'-0"	7'-3"	1'-0"	1'-0"	1'-0"	1'-8"	4'-2"	6'-9"	9'-3"
		26'	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	5'-2"	8'-6"	1'-0"	1'-0"	1'-0"	2'-11"	5'-5"	8'-0"	10'-6"
		28'	1'-0"	1'-0"	1'-0"	1'-0"	3'-5"	6'-5"	9'-9"	1'-0"	1'-0"	1'-8"	4'-2"	6'-8"	9'-3"	11'-9"
		30'	1'-0"	1'-0"	1'-0"	1'-9"	4'-6"	7'-7"	11'-1"	1'-0"	1'-0"	2'-11"	5'-5"	7'-11"	10'-6"	13'-1"
		32'	1'-0"	1'-0"	1'-0"	2'-9"	5'-8"	8'-10"	12'-5"	1'-0"	1'-8"	4'-2"	6'-8"	9'-2"	11'-9"	14'-6"
		34'	1'-0"	1'-0"	1'-2"	3'-11"	6'-10"	10'-1"	13'-9"	1'-0"	2'-11"	5'-5"	7'-11"	10'-5"	13'-0"	16'-0"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-9"
	20"	20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-0"
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	3'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	4'-0"	6'-3"
	20"	24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-11"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-3"	7'-6"
		26'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-5"	6'-2"	1'-0"	1'-0"	1'-0"	1'-11"	4'-2"	6'-6"	8'-9"
	20"	28'	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-6"	7'-4"	1'-0"	1'-0"	1'-0"	3'-2"	5'-5"	7'-9"	10'-0"
		30'	1'-0"	1'-0"	1'-0"	1'-0"	3'-1"	5'-8"	8'-7"	1'-0"	1'-0"	2'-2"	4'-5"	6'-8"	9'-0"	11'-3"
1 56		32'	1'-0"	1'-0"	1'-0"	1'-9"	4'-2"	6'-11"	9'-10"	1'-0"	1'-2"	3'-5"	5'-8"	7'-11"	10'-3"	12'-6"
<u>-</u>		34'	1'-0"	1'-0"	1'-0"	2'-9"	5'-4"	8'-1"	11'-2"	1'-0"	2'-5"	4'-8"	6'-11"	9'-2"	11'-6"	13'-9"
36,		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
LPI		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"
_		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-6"
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	4'-9"
		24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	4'-0"	6'-0"
		26'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-4"	1'-0"	1'-0"	1'-0"	1'-1"	3'-2"	5'-3"	7'-3"
	22"	28'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-2"	5'-6"	1'-0"	1'-0"	1'-0"	2'-4"	4'-5"	6'-6"	8'-6"
		30'	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-3"	6'-9"	1'-0"	1'-0"	1'-7"	3'-7"	5'-8"	7'-9"	9'-9"
		32'	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-5"	7'-11"	1'-0"	1'-0"	2'-10"	4'-10"	6'-11"	9'-0"	11'-0"
		34'	1'-0"	1'-0"	1'-0"	1'-11"	4'-2"	6'-7"	9'-2"	1'-0"	2'-0"	4'-1"	6'-1"	8'-2"	10'-3"	12'-3"
		36'	1'-0"	1'-0"	1'-0"	3'-0"	5'-3"	7'-9"	10'-5"	1'-2"	3'-3"	5'-4"	7'-4"	9'-5"	11'-6"	13'-6"
		38'	1'-0"	1'-0"	1'-10"	4'-1"	6'-5"	8'-11"	11'-8"	2'-5"	4'-6"	6'-7"	8'-7"	10'-8"	12'-9"	14'-9"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	3'-7"
		24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	2'-11"	4'-10"
	04"	26'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-2"	6'-1"
	24"	28'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-1"	1'-0"	1'-0"	1'-0"	1'-8"	3'-7"	5'-5"	7'-4"
		30'	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	3'-1"	5'-3"	1'-0"	1'-0"	1'-0"	2'-11"	4'-10"	6'-8"	8'-7"
		32'	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	4'-2"	6'-5"	1'-0"	1'-0"	2'-3"	4'-2"	6'-1"	7'-11"	9'-10"
		34'	1'-0"	1'-0"	1'-0"	1'-2"	3'-2"	5'-4"	7'-7"	1'-0"	1'-8"	3'-6"	5'-5"	7'-4"	9'-2"	11'-1"
		36'	1'-0"	1'-0"	1'-0"	2'-3"	4'-3"	6'-6"	8'-10"	1'-0"	2'-11"	4'-9"	6'-8"	8'-7"	10'-5"	12'-4"
		38'	1'-0"	1'-0"	1'-4"	3'-4"	5'-5"	7'-8"	10'-0"	2'-3"	4'-2"	6'-0"	7'-11"	9'-10"	11'-8"	13'-7"

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTANC	E FROM	END SUI	PPORT (fe	eet-inche	es)	DI	STANCE	FROM IN	TERIOR	SUPPOR	T (feet-in	ches)
JOIST	DEPTH	SPAN		Но	ole Diame	ter (inche	es)				Нс	le Diame	ter (inch	es)	•	
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	-
		10'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	2'-2"	-	-	-	-
		12'	1'-0"	1'-0"	2'-1"	-	-	-	-	1'-0"	1'-1"	3'-5"	-	-	-	-
	91/2"	14'	1'-0"	1'-0"	3'-4"	-	-	-	-	1'-0"	2'-4"	4'-8"	-	-	-	-
		16'	1'-0"	1'-8"	4'-6"	-	-	-	-	1'-3"	3'-7"	5'-11"	-	-	-	-
		18'	1'-0"	2'-9"	5'-9"	-	-	-	-	2'-6"	4'-10"	7'-2"	-	-	-	-
		20'	1'-3"	3'-11"	7'-1"	-	-	-	-	3'-9"	6'-1"	8'-5"	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	2'-1"	-	-	-
	117/8"	12'	1'-0"	1'-0"	1'-0"	2'-0"	-	-	-	1'-0"	1'-0"	1'-2"	3'-4"	-	-	-
		14'	1'-0"	1'-0"	1'-0"	3'-2"	-	-	-	1'-0"	1'-0"	2'-5"	4'-7"	-	-	-
		16'	1'-0"	1'-0"	1'-8"	4'-4"	-	-	-	1'-0"	1'-5"	3'-8"	5'-10"	-	-	-
		18'	1'-0"	1'-0"	2'-10"	5'-7"	-	-	-	1'-0"	2'-8"	4'-11"	7'-1"	-	-	-
		20'	1'-0"	1'-6"	4'-0"	6'-11"	-	-	-	1'-9"	3'-11"	6'-2"	8'-4"	-	-	-
		22'	1'-0"	2'-7"	5'-2"	8'-3"	-	-	-	3'-0"	5'-2"	7'-5"	9'-8"	-	-	-
		24'	1'-3"	3'-8"	6'-5"	9'-7"	-	-	-	4'-3"	6'-5"	8'-8"	11'-1"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	-
LPI 450		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	-	-	1'-0"	1'-0"	1'-0"	1'-4"	3'-5"	-	-
<u> </u>		14'	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	-	-	1'-0"	1'-0"	1'-0"	2'-7"	4'-8"	-	-
_		16'	1'-0"	1'-0"	1'-0"	1'-11"	4'-5"	-	-	1'-0"	1'-0"	1'-9"	3'-10"	5'-11"	-	-
	14"	18'	1'-0"	1'-0"	1'-0"	3'-0"	5'-9"	-	-	1'-0"	1'-0"	3'-0"	5'-1"	7'-2"	-	-
	'-	20'	1'-0"	1'-0"	1'-9"	4'-2"	7'-0"	-	-	1'-0"	2'-2"	4'-3"	6'-4"	8'-5"	-	-
		22'	1'-0"	1'-0"	2'-11"	5'-5"	8'-4"	-	-	1'-4"	3'-5"	5'-6"	7'-7"	9'-9"	-	-
		24'	1'-0"	1'-8"	4'-0"	6'-8"	9'-8"	-	-	2'-7"	4'-8"	6'-9"	8'-10"	11'-3"	-	-
		26'	1'-0"	2'-9"	5'-2"	7'-11"	11'-0"	-	-	3'-10"	5'-11"	8'-0"	10'-1"	12'-8"	-	-
		28'	1'-7"	3'-11"	6'-5"	9'-2"	12'-5"	-	-	5'-1"	7'-2"	9'-3"	11'-4"	-	-	-
		30'	2'-8"	5'-0"	7'-7"	10'-6"	13'-9"	-	-	6'-4"	8'-5"	10'-6"	12'-7"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-6"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-5"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	4'-9"	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	4'-8"	-	1'-0"	1'-0"	1'-0"	2'-0"	4'-0"	6'-0"	-
	16"	18'	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	5'-11"	-	1'-0"	1'-0"	1'-3"	3'-3"	5'-3"	7'-3"	-
		20'	1'-0"	1'-0"	1'-0"	2'-1"	4'-6"	7'-3"	-	1'-0"	1'-0"	2'-6"	4'-6"	6'-6"	8'-6"	-
		22'	1'-0"	1'-0"	1'-0"	3'-2"	5'-8"	8'-6"	-	1'-0"	1'-8"	3'-9"	5'-9"	7'-9"	10'-0"	-
		24'	1'-0"	1'-0"	2'-1"	4'-4"	6'-11"	9'-11"	-	1'-0"	2'-11"	5'-0"	7'-0"	9'-0"	11'-5"	-
		26'	1'-0"	1'-0"	3'-2"	5'-6"	8'-2"	11'-3"	-	2'-2"	4'-2"	6'-3"	8'-3"	10'-3"	12'-11"	-
		28'	1'-0"	2'-0"	4'-3"	6'-9"	9'-6"	12'-7"	-	3'-5"	5'-5"	7'-6"	9'-6"	11'-6"	-	-
		30'	1'-0"	3'-1"	5'-5"	7'-11"	10'-9"	14'-0"	-	4'-8"	6'-8"	8'-9"	10'-9"	12'-9"	-	-

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTANC	E FROM	END SUI	PPORT (fe	eet-inche	es)	DI	STANCE	FROM IN	TERIOR	SUPPOR	T (feet-in	ches)
JOIST SERIES	DEPTH	SPAN		Но	le Diame	ter (inche	es)				Ho	le Diame	ter (inch	es)		
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	-
		10'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-10"	-	-	-	-
	91/2"	12'	1'-0"	1'-0"	1'-8"	-	-	-	-	1'-0"	1'-0"	3'-1"	-	-	-	-
	9./2	14'	1'-0"	1'-0"	2'-10"	-	-	-	-	1'-0"	1'-9"	4'-4"	-	-	-	-
		16'	1'-0"	1'-0"	4'-0"	-	-	-	-	1'-0"	3'-0"	5'-7"	-	-	-	-
		18'	1'-0"	2'-1"	5'-3"	-	-	-	-	1'-8"	4'-3"	6'-10"	-	-	-	-
		20'	1'-0"	3'-3"	6'-7"	-	-	-	-	2'-11"	5'-6"	8'-1"	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-8"	-	-	-
	117/8"	12'	1'-0"	1'-0"	1'-0"	1'-6"	-	-	-	1'-0"	1'-0"	1'-0"	2'-11"	-	-	-
		14'	1'-0"	1'-0"	1'-0"	2'-8"	-	-	-	1'-0"	1'-0"	1'-9"	4'-2"	-	-	-
		16'	1'-0"	1'-0"	1'-0"	3'-10"	-	-	-	1'-0"	1'-0"	3'-0"	5'-5"	-	-	-
		18'	1'-0"	1'-0"	2'-2"	5'-1"	-	-	-	1'-0"	1'-10"	4'-3"	6'-8"	-	-	-
		20'	1'-0"	1'-0"	3'-3"	6'-4"	-	-	-	1'-0"	3'-1"	5'-6"	7'-11"	-	-	-
		22'	1'-0"	1'-8"	4'-5"	7'-7"	-	-	-	2'-0"	4'-4"	6'-9"	9'-2"	-	-	-
		24'	1'-0"	2'-9"	5'-7"	8'-11"	-	-	-	3'-3"	5'-7"	8'-0"	10'-6"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	-	-
LPI 530		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	-	-
<u> </u>		14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	-	-	1'-0"	1'-0"	1'-0"	1'-11"	4'-3"	-	-
		16'	1'-0"	1'-0"	1'-0"	1'-3"	3'-11"	-	-	1'-0"	1'-0"	1'-0"	3'-2"	5'-6"	-	-
	14"	18'	1'-0"	1'-0"	1'-0"	2'-4"	5'-2"	-	-	1'-0"	1'-0"	2'-2"	4'-5"	6'-9"	-	-
		20'	1'-0"	1'-0"	1'-0"	3'-5"	6'-5"	-	-	1'-0"	1'-1"	3'-5"	5'-8"	8'-0"	-	-
		22'	1'-0"	1'-0"	2'-0"	4'-7"	7'-8"	-	-	1'-0"	2'-4"	4'-8"	6'-11"	9'-3"	-	-
		24'	1'-0"	1'-0"	3'-1"	5'-10"	9'-0"	-	-	1'-4"	3'-7"	5'-11"	8'-2"	10'-7"	-	-
		26'	1'-0"	1'-8"	4'-2"	7'-1"	10'-4"	-	-	2'-7"	4'-10"	7'-2"	9'-5"	12'-1"	-	-
		28'	1'-0"	2'-9"	5'-4"	8'-4"	11'-8"	-	-	3'-10"	6'-1"	8'-5"	10'-8"	13'-6"	-	-
		30'	1'-4"	3'-10"	6'-6"	9'-7"	13'-1"	-	-	5'-1"	7'-4"	9'-8"	11'-11"	15'-0"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-1"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	4'-4"	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	4'-1"	-	1'-0"	1'-0"	1'-0"	1'-2"	3'-5"	5'-7"	-
	16"	18'	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	5'-4"	-	1'-0"	1'-0"	1'-0"	2'-5"	4'-8"	6'-10"	-
		20'	1'-0"	1'-0"	1'-0"	1'-2"	3'-8"	6'-7"	-	1'-0"	1'-0"	1'-5"	3'-8"	5'-11"	8'-1"	-
		22'	1'-0"	1'-0"	1'-0"	2'-3"	4'-11"	7'-11"	-	1'-0"	1'-0"	2'-8"	4'-11"	7'-2"	9'-5"	-
]		24'	1'-0"	1'-0"	1'-0"	3'-5"	6'-1"	9'-3"	-	1'-0"	1'-9"	3'-11"	6'-2"	8'-5"	10'-10"	-
		26'	1'-0"	1'-0"	2'-0"	4'-6"	7'-4"	10'-7"	-	1'-0"	3'-0"	5'-2"	7'-5"	9'-8"	12'-3"	-
		28'	1'-0"	1'-0"	3'-1"	5'-8"	8'-7"	11'-11"	-	2'-0"	4'-3"	6'-5"	8'-8"	10'-11"	13'-9"	-
		30'	1'-0"	1'-9"	4'-3"	6'-11"	9'-11"	13'-4"	-	3'-3"	5'-6"	7'-8"	9'-11"	12'-2"	-	-

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

¹The hole locations listed above are valid for joists supporting only uniform loads. The total uniform load must not exceed 110 plf (e.g., 40 psf Live Load and a 15 psf Dead Load, spaced up to 24 inches o.c.). The uniform Dead Load must be at least 10 plf.

²Hole location is measured from the inside face of the nearest support to the center of a circular hole or to the center of radius of the nearest semi-circular end of an obround hole.

³Obround holes are not allowed for the LPI 26, LPI 450 and LPI 530 I-Joists.

⁴Maximum hole diameter for circular holes is the Joist Depth less 4 inches, except the maximum hole diameter is 6 inches for 9¹/₂-inch-deep joists, and 8 inches for 117/8-inch-deep joists.

⁵Holes cannot be located in the span where designated "-", without further analysis by a design professional (see note 7 below).

⁶Clear 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.

Larger holes, greater uniform loads or nonuniform loads, and closer proximity to supports and other holes may be possible with further analysis (See Section 4.4 and the web hole shear equations listed in Table 10).

					NCE FRO				inches)						OR SUPP	OPT (fo	ot inche	
JOIST	JOIST DEPTH	CLEAR SPAN	N/	laximum						۵۱					n: Depth			
SERIES	(in.)	(ft.)	2"	4"	6"	mensioi 8"	10"	12"	14"	s) 16"	2"	4"	6"	8"	1: Depth 10"	12"	14"	16"
	(,	6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	-	1'-0"	1'-0"	1'-0"	1'-1"	1'-6"	1'-10"	-	-
		8'	1'-0"	1'-0"	1'-1"	1'-6"	1'-11"	2'-5"	-	-	1'-0"	1'-0"	2'-0"	2'-4"	2'-9"	3'-1"		_
		10'	1'-0"	1'-0"	2'-3"	2'-8"	3'-2"	3'-9"	_		1'-0"	1'-10"	3'-3"	3'-7"	4'-0"	4'-5"		-
		12'	1'-0"	1'-8"	3'-5"	3'-11"	4'-6"	5'-1"			1'-8"	3'-1"	4'-6"	4'-10"	5'-4"	-		
	91/2"	14'	1'-2"	2'-10"	4'-9"	5'-3"	5'-10"	6'-6"	-	_	2'-11"	4'-4"	5'-9"	6'-2"	-	-	_	_
		16'	2'-3"	4'-0"	6'-0"	6'-7"	7'-3"	-	_	_	4'-2"	5'-7"	7'-1"	7'-8"	_	-	_	_
		18'	3'-5"	5'-3"	7'-4"	8'-0"	8'-7"	_	_	_	5'-5"	6'-10"	8'-6"	-	_	_	_	_
		20'	4'-7"	6'-6"	8'-9"	9'-4"	-	_	_	_	6'-8"	8'-1"	-	_	_	_	_	_
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	_	_	_	1'-0"	1'-0"	1'-0"	1'-4"	1'-8"	-	_	_
		8'	1'-0"	1'-0"	1'-0"	1'-9"	2'-3"	_	-	_	1'-0"	1'-0"	1'-4"	2'-7"	2'-11"	-	_	_
		10'	1'-0"	1'-0"	1'-5"	3'-0"	3'-6"	_	_	_	1'-0"	1'-5"	2'-7"	3'-10"	4'-2"	_	_	_
		12'	1'-0"	1'-2"	2'-7"	4'-3"	4'-10"	_	_	_	1'-5"	2'-8"	3'-10"	5'-1"	5'-7"	_	_	_
	117/8"	14'	1'-0"	2'-4"	3'-10"	5'-7"	6'-2"	-	-	-	2'-8"	3'-11"	5'-1"	6'-6"	-	-	-	-
		16'	2'-0"	3'-6"	5'-1"	6'-11"	7'-7"	_	-	_	3'-11"	5'-2"	6'-4"	-	_	_	_	_
		18'	3'-2"	4'-8"	6'-5"	8'-4"	-	-	-	-	5'-2"	6'-5"	7'-7"	-	-	-	-	-
		20'	4'-4"	5'-11"	7'-8"	-	_	_	-	-	6'-5"	7'-8"	9'-0"	_	_	_	_	_
		22'	5'-7"	7'-3"	9'-1"	-	-	-	-	-	7'-8"	8'-11"	10'-6"	-	-	-	-	-
		24'	6'-9"	8'-6"	10'-5"	-	-	-	-	-	8'-11"	10'-2"	-	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	2'-4"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	2'-6"	3'-0"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	2'-10"	3'-7"	-	1'-0"	1'-0"	1'-0"	1'-4"	3'-2"	3'-9"	4'-3"	-
18		12'	1'-0"	1'-0"	1'-0"	1'-1"	3'-4"	4'-1"	4'-11"	-	1'-0"	1'-0"	1'-0"	2'-7"	4'-5"	5'-0"	-	-
LPI 18		14'	1'-0"	1'-0"	1'-0"	2'-3"	4'-7"	5'-5"	6'-4"	-	1'-0"	1'-0"	2'-0"	3'-10"	5'-8"	6'-4"	-	-
_		16'	1'-0"	1'-0"	1'-3"	3'-5"	5'-11"	6'-9"	-	-	1'-0"	1'-5"	3'-3"	5'-1"	6'-11"	-	-	-
		18'	1'-0"	1'-0"	2'-5"	4'-7"	7'-3"	8'-2"	-	-	1'-0"	2'-8"	4'-6"	6'-4"	8'-5"	-	-	-
	14"	20'	1'-0"	1'-6"	3'-6"	5'-10"	8'-7"	9'-6"	-	-	2'-1"	3'-11"	5'-9"	7'-7"	-	-	-	-
		22'	1'-0"	2'-7"	4'-8"	7'-2"	9'-11"	-	-	-	3'-4"	5'-2"	7'-0"	8'-10"	-	-	-	-
		24'	1'-8"	3'-8"	5'-11"	8'-5"	11'-4"	-	-	-	4'-7"	6'-5"	8'-3"	10'-1"	-	-	-	-
		26'	2'-9"	4'-10"	7'-2"	9'-9"	-	-	-	-	5'-10"	7'-8"	9'-6"	11'-5"	-	-	-	-
		28'	3'-10"	6'-0"	8'-5"	11'-1"	-	-	-	-	7'-1"	8'-11"	10'-9"	12'-11"	-	-	-	-
		30'	5'-0"	7'-3"	9'-8"	12'-5"	-	-	-	-	8'-4"	10'-2"	12'-0"	14'-4"	-		-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	2'-9"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	3'-3"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-0"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-7"	-	-	1'-0"	1'-0"	1'-0"	1'-11"	3'-7"	5'-4"	-	-
		14'	1'-0"	1'-0"	1'-0"	1'-6"	3'-6"	5'-11"	-	-	1'-0"	1'-0"	1'-6"	3'-2"	4'-10"	-	-	-
		16'	1'-0"	1'-0"	1'-0"	2'-8"	4'-9"	7'-4"	-	-	1'-0"	1'-1"	2'-9"	4'-5"	6'-1"	-	-	-
	16"	18'	1'-0"	1'-0"	1'-10"	3'-10"	6'-0"	-	-	-	1'-0"	2'-4"	4'-0"	5'-8"	7'-4"	-	-	-
	10	20'	1'-0"	1'-1"	3'-0"	5'-0"	7'-4"	-	-	-	1'-11"	3'-7"	5'-3"	6'-11"	8'-8"	-	-	-
		22'	1'-0"	2'-2"	4'-1"	6'-3"	8'-8"	-	-	-	3'-2"	4'-10"	6'-6"	8'-2"	10'-1"	-	-	-
		24'	1'-6"	3'-4"	5'-4"	7'-6"	10'-0"	-	-	-	4'-5"	6'-1"	7'-9"	9'-5"	11'-7"	-	-	-
		26'	2'-7"	4'-5"	6'-6"	8'-10"	11'-5"	-	-	-	5'-8"	7'-4"	9'-0"	10'-8"	-	-	-	-
		28'	3'-8"	5'-7"	7'-9"	10'-1"	12'-9"	-	-	-	6'-11"	8'-7"	10'-3"	12'-0"	-	-	-	-
		30'	4'-9"	6'-10"	9'-0"	11'-5"	14'-2"	-	-	-	8'-2"	9'-10"	11'-6"	13'-5"	-	ı	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	1010=	01.545		DISTAI	NCE FRO	M END	SUPPO	RT (feet-	inches)		Di	ISTANCI	FROM	INTERIC	OR SUPE	ORT (fo	et-inche	(e)
JOIST	JOIST DEPTH	CLEAR SPAN	M		Hole Di					s)						•	h (inche	•
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	1. Deptii	12"	14"	16"
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-8"	· •	-
		8'	1'-0"	1'-0"	1'-0"	1'-2"	1'-8"	2'-2"	_	_	1'-0"	1'-0"	1'-8"	2'-1"	2'-6"	2'-11"	_	_
		10'	1'-0"	1'-0"	1'-10"	2'-4"	2'-10"	3'-5"	-	-	1'-0"	1'-4"	2'-11"	3'-4"	3'-9"	4'-2"	-	-
		12'	1'-0"	1'-2"	3'-0"	3'-7"	4'-2"	4'-9"	-	-	1'-0"	2'-7"	4'-2"	4'-7"	5'-0"	5'-6"	-	-
	91/2"	14'	1'-0"	2'-3"	4'-3"	4'-10"	5'-6"	6'-1"	-	-	2'-3"	3'-10"	5'-5"	5'-10"	6'-5"	-	-	_
		16'	1'-7"	3'-5"	5'-7"	6'-2"	6'-10"	7'-6"	-	-	3'-6"	5'-1"	6'-8"	7'-3"	-	-	-	-
		18'	2'-8"	4'-8"	6'-10"	7'-6"	8'-2"	-	-	-	4'-9"	6'-4"	8'-1"	8'-8"	-	-	-	-
		20'	3'-10"	5'-11"	8'-3"	8'-10"	9'-7"	-	-	-	6'-0"	7'-7"	9'-6"	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	-	1'-0"	1'-0"	1'-0"	1'-1"	1'-6"	1'-11"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-5"	1'-11"	2'-6"	-	-	1'-0"	1'-0"	1'-0"	2'-4"	2'-9"	3'-2"	-	-
		10'	1'-0"	1'-0"	1'-0"	2'-8"	3'-2"	3'-9"	-	-	1'-0"	1'-0"	2'-3"	3'-7"	4'-0"	4'-5"	-	-
		12'	1'-0"	1'-0"	2'-2"	3'-11"	4'-6"	5'-2"	-	-	1'-0"	2'-2"	3'-6"	4'-10"	5'-3"	-	-	-
snl	11 ⁷ / ₈ "	14'	1'-0"	1'-9"	3'-4"	5'-2"	5'-10"	6'-6"	-	-	2'-1"	3'-5"	4'-9"	6'-1"	-	-	-	-
52Plus	11.78	16'	1'-4"	2'-10"	4'-7"	6'-6"	7'-2"	-	-	-	3'-4"	4'-8"	6'-0"	7'-7"	-	-	-	-
		18'	2'-5"	4'-1"	5'-10"	7'-11"	8'-7"	-	-	-	4'-7"	5'-11"	7'-3"	-	-	-	-	-
42Plus, LPI		20'	3'-7"	5'-3"	7'-2"	9'-3"	-	-	-	-	5'-10"	7'-2"	8'-6"	-	-	-	-	-
Plu		22'	4'-9"	6'-6"	8'-5"	10'-8"	-	-	-	-	7'-1"	8'-5"	9'-11"	-	-	-	-	-
421		24'	6'-0"	7'-9"	9'-10"	-	-	-	-	-	8'-4"	9'-8"	11'-4"	-	-	-	-	-
LPI		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	2'-1"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	2'-2"	2'-10"	-
- <u>'S</u>		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-6"	3'-4"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	3'-5"	4'-1"	-
32Plus,		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	3'-9"	4'-8"	-	1'-0"	1'-0"	1'-0"	2'-1"	4'-1"	4'-8"	5'-5"	-
32		14'	1'-0"	1'-0"	1'-0"	1'-8"	4'-2"	5'-0"	6'-0"	-	1'-0"	1'-0"	1'-4"	3'-4"	5'-4"	5'-11"	-	-
LP		16'	1'-0"	1'-0"	1'-0"	2'-10"	5'-5"	6'-4"	7'-4"	-	1'-0"	1'-0"	2'-7"	4'-7"	6'-7"	7'-5"	-	-
x4,	14"	18'	1'-0"	1'-0"	1'-7"	4'-0"	6'-9"	7'-8"	-	-	1'-0"	1'-10"	3'-10"	5'-10"	7'-11"	-	-	-
LPI 20x4, LPI		20'	1'-0"	1'-0"	2'-9"	5'-2"	8'-1"	9'-1"	-	-	1'-1"	3'-1"	5'-1"	7'-1"	9'-4"	-	-	-
5		22'	1'-0"	1'-7"	3'-10"	6'-5"	9'-5"	10'-6"	-	-	2'-4"	4'-4"	6'-4"	8'-4"	-	-	-	-
JS,		24'	1'-0"	2'-8"	5'-1"	7'-8"	10'-10"	-	-	-	3'-7"	5'-7"	7'-7"	9'-7"	-	-	-	-
LPI 20Plus,		26'	1'-7"	3'-10"	6'-3"	9'-0"	12'-2"	-	-	-	4'-10"	6'-10"	8'-10"	10'-10"	-	-	-	-
1 2(28'	2'-8"	4'-11"	7'-6"	10'-4"	13'-7"	-	-	-	6'-1"	8'-1"	10'-1"	12'-2"	-	-	-	-
L.		30'	3'-9"	6'-1"	8'-9"	11'-8"	-	-	-	-	7'-4"	9'-4"	11'-4"	13'-7"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	3'-2"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	3'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-10"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	4'-3"	5'-2"	-	1'-0"	1'-0"	1'-0"	1'-5"	3'-3"	5'-1"	-	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-7"	-	-	1'-0"	1'-0"	1'-0"	2'-8"	4'-6"	6'-6"	-	-
		16'	1'-0"	1'-0"	1'-0"	2'-0"	4'-3"	6'-11"	-	-	1'-0"	1'-0"	2'-0"	3'-11"	5'-9"		-	-
	16"	18'	1'-0"	1'-0" 1'-0"	1'-1" 2'-2"	3'-1"	5'-6"	8'-3"	-	-	1'-0"	1'-5"	3'-3"	5'-2"	7'-0"	-	-	-
		20'	1'-0"			4'-4"	6'-9"	-	-	-	1'-0"	2'-8"	4'-6"	6'-5"	8'-3"	-	-	-
		22' 24'	1'-0" 1'-0"	1'-3" 2'-4"	3'-3" 4'-5"	5'-6" 6'-9"	8'-1" 9'-5"	-	-	-	2'-1" 3'-4"	3'-11" 5'-2"	5'-9" 7'-0"	7'-8" 8'-11"	9'-6"	-	-	-
		26'	1'-5"	3'-5"	5'-7"	8'-0"	10'-9"	-	-	-	4'-7"	6'-5"	8'-3"	10'-2"	10'-11" 12'-5"	-	-	-
		28'	2'-5"	4'-6"	6'-9"	9'-3"	10'-9"	-	-	-	5'-10"	7'-8"	9'-6"	10'-2"		-	-	-
1		30'	3'-7"	5'-8"	8'-0"	10'-7"	12'-1"				5'-10" 7'-1"	8'-11"	10'-9"	11'-5"	-			-
ı		30.	3-/"	5-8"	8-0"	10'-7"	13-6"	-	-	-	7:-1"	8-11"	10-9"	12'-8"	-	-	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTAN	ICE FRO	M END	SUPPOR	RT (feet-	inches)		DI	STANCE	FROM	INTERIO	R SUPF	ORT (fe	et-inche	s)
JOIST SERIES	DEPTH	SPAN	М	aximum	Hole Di	mensior	n: Depth	or Widt	h (inche	s)	M	laximum	Hole Di	mensior	n: Depth	or Widt	h (inche	s)
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	4'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	5'-4"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	5'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	3'-10"	-	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-4"	7'-3"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	5'-1"	-	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	4'-7"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	3'-7"	6'-4"	-	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	5'-10"	-	-	1'-0"	1'-0"	1'-0"	2'-2"	4'-10"	7'-7"	-	-
	18"	22'	1'-0"	1'-0"	1'-0"	1'-0"	3'-7"	7'-1"	-	-	1'-0"	1'-0"	1'-0"	3'-5"	6'-1"	8'-10"	-	-
	10	24'	1'-0"	1'-0"	1'-0"	1'-8"	4'-9"	8'-4"	-	-	1'-0"	1'-0"	2'-0"	4'-8"	7'-4"	10'-1"	-	-
		26'	1'-0"	1'-0"	1'-0"	2'-9"	6'-0"	9'-8"	-	-	1'-0"	1'-0"	3'-3"	5'-11"	8'-7"	11'-5"	-	-
		28'	1'-0"	1'-0"	1'-0"	3'-11"	7'-2"	11'-0"	-	-	1'-0"	1'-9"	4'-6"	7'-2"	9'-10"	12'-10"	-	-
		30'	1'-0"	1'-0"	2'-0"	5'-0"	8'-5"	12'-4"	-	-	1'-0"	3'-0"	5'-9"	8'-5"	11'-1"	14'-3"	-	-
		32'	1'-0"	1'-0"	3'-1"	6'-2"	9'-8"	13'-9"	-	-	1'-7"	4'-3"	7'-0"	9'-8"	12'-4"	-	-	-
		34'	1'-0"	1'-3"	4'-2"	7'-5"	10'-11"	15'-1"	-	-	2'-10"	5'-6"	8'-3"	10'-11"	13'-7"	-	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-0"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	4'-1"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-3"	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	5'-4"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-0"	6'-6"	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	6'-7"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-3"	7'-10"	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-5"	7'-11"	-	1'-0"	1'-0"	1'-0"	1'-5"	4'-0"	6'-6"	9'-3"	-
	20"	22'	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	5'-8"	9'-4"	-	1'-0"	1'-0"	1'-0"	2'-8"	5'-3"	7'-9"	-	-
	20	24'	1'-0"	1'-0"	1'-0"	1'-0"	3'-9"	6'-11"	10'-8"	-	1'-0"	1'-0"	1'-5"	3'-11"	6'-6"	9'-0"	-	-
		26'	1'-0"	1'-0"	1'-0"	2'-0"	4'-11"	8'-2"	12'-1"	-	1'-0"	1'-0"	2'-8"	5'-2"	7'-9"	10'-3"	-	-
sn		28'	1'-0"	1'-0"	1'-0"	3'-1"	6'-1"	9'-5"	13'-5"	-	1'-0"	1'-5"	3'-11"	6'-5"	9'-0"	11'-6"	-	-
2PI		30'	1'-0"	1'-0"	1'-5"	4'-3"	7'-3"	10'-9"	-	-	1'-0"	2'-8"	5'-2"	7'-8"	10'-3"	12'-9"	-	-
12		32'	1'-0"	1'-0"	2'-6"	5'-4"	8'-6"	12'-1"	-	-	1'-5"	3'-11"	6'-5"	8'-11"	11'-6"	14'-2"	-	-
LPI 42Plus, LPI 52Plus		34'	1'-0"	1'-0"	3'-7"	6'-6"	9'-9"	13'-5"	-	-	2'-8"	5'-2"	7'-8"	10'-2"	12'-9"	15'-7"	-	-
lus,		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	3'-11"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-2"	5'-6"	-
2P		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	5'-2"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-5"	6'-9"	-
P 4		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-5"	6'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	5'-8"	8'-0"	-
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	4'-7"	7'-9"	-	1'-0"	1'-0"	1'-0"	2'-2"	4'-6"	6'-11"	9'-3"	-
		24'	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-9"	9'-1"	-	1'-0"	1'-0"	1'-0"	3'-5"	5'-9"	8'-2"	10'-8"	-
	22"	26'	1'-0"	1'-0"	1'-0"	1'-5"	4'-0"	7'-0"	10'-5"	-	1'-0"	1'-0"	2'-3"	4'-8"	7'-0"	9'-5"	12'-1"	-
		28'	1'-0"	1'-0"	1'-0"	2'-6"	5'-2"	8'-3"	11'-9"	-	1'-0"	1'-2"	3'-6"	5'-11"	8'-3"	10'-8"	-	-
		30'	1'-0"	1'-0"	1'-0"	3'-7"	6'-4"	9'-6"	13'-1"	-	1'-0"	2'-5"	4'-9"	7'-2"	9'-6"	11'-11"	-	-
		32'	1'-0"	1'-0"	2'-1"	4'-8"	7'-7"	10'-9"	14'-6"	-	1'-3"	3'-8"	6'-0"	8'-5"	10'-9"	13'-2"	-	-
		34'	1'-0"	1'-0"	3'-2"	5'-10"	8'-10"	12'-1"	15'-11"	-	2'-6"	4'-11"	7'-3"	9'-8"	12'-0"	14'-5"	-	-
		36'	1'-0"	1'-8"	4'-3"	7'-0"	10'-0"	13'-5"	17'-3"	-	3'-9"	6'-2"	8'-6"	10'-11"	13'-3"	15'-9"	-	-
		38'	1'-0"	2'-8"	5'-4"	8'-2"	11'-3"	14'-9"	-	-	5'-0"	7'-5"	9'-9"	12'-2"	14'-6"	17'-3"	-	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	4'-8"	7'-0"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-1"	7'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	3'-8"	5'-11"	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	5'-4"	8'-8"	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	4'-11"	7'-2"	-
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	3'-8"	6'-7"	10'-0"	1'-0"	1'-0"	1'-0"	1'-8"	3'-11"	6'-2"	8'-5"	-
		24'	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	4'-10"	7'-10"	-	1'-0"	1'-0"	1'-0"	2'-11"	5'-2"	7'-5"	9'-8"	-
	24"	26'	1'-0"	1'-0"	1'-0"	1'-0"	3'-4"	6'-1"	9'-2"	-	1'-0"	1'-0"	1'-11"	4'-2"	6'-5"	8'-8"	10'-11"	-
		28'	1'-0"	1'-0"	1'-0"	1'-11"	4'-6"	7'-3"	10'-5"	-	1'-0"	1'-0"	3'-2"	5'-5"	7'-8"	9'-11"	12'-4"	-
		30'	1'-0"	1'-0"	1'-0"	3'-0"	5'-8"	8'-6"	11'-9"	-	1'-0"	2'-2"	4'-5"	6'-8"	8'-11"	11'-2"	13'-9"	-
		32'	1'-0"	1'-0"	1'-8"	4'-2"	6'-10"	9'-9"	13'-2"	-	1'-2"	3'-5"	5'-8"	7'-11"	10'-2"	12'-5"	15'-2"	-
		34'	1'-0"	1'-0"	2'-9"	5'-3"	8'-0"	11'-1"	14'-6"	-	2'-5"	4'-8"	6'-11"	9'-2"	11'-5"	13'-8"	-	-
		36'	1'-0"	1'-5"	3'-10"	6'-5"	9'-3"	12'-4"	15'-10"	-	3'-8"	5'-11"	8'-2"	10'-5"	12'-8"	14'-11"	-	-
		38'	1'-0"	2'-5"	4'-11"	7'-7"	10'-6"	13'-8"	17'-3"	-	4'-11"	7'-2"	9'-5"	11'-8"	13'-11"	16'-2"	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	IOIOT	CLEAR		DISTAN	NCE FRO	M FND	SUPPOR	RT (feet-	inches)		וח	STANCI	E FROM	INTERIC	R SUP	ORT (fo	et-inche	es)
JOIST	JOIST DEPTH	CLEAR SPAN	M	laximum						s)			Hole Di			•		
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	ı	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-8"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-2"	1'-8"	2'-2"	-	-	1'-0"	1'-0"	1'-8"	2'-1"	2'-6"	2'-11"	-	-
		10'	1'-0"	1'-0"	1'-10"	2'-4"	2'-10"	3'-5"	-	-	1'-0"	1'-4"	2'-11"	3'-4"	3'-9"	4'-2"	-	-
	91/2"	12'	1'-0"	1'-2"	3'-0"	3'-7"	4'-2"	4'-9"	-	-	1'-0"	2'-7"	4'-2"	4'-7"	5'-0"	5'-6"	-	-
		14'	1'-0"	2'-3"	4'-3"	4'-10"	5'-6"	6'-1"	-	-	2'-3"	3'-10"	5'-5"	5'-10"	6'-5"	-	-	-
		16'	1'-7"	3'-5"	5'-7"	6'-2"	6'-10"	7'-6"	-	-	3'-6"	5'-1"	6'-8"	7'-3"	-	-	-	-
		18'	2'-8"	4'-8"	6'-10"	7'-6"	8'-2"	-	-	-	4'-9"	6'-4"	8'-1"	8'-8"	-	-	-	-
LPI 26		20' 6'	3'-10" 1'-0"	5'-11" 1'-0"	8'-3" 1'-0"	8'-10" 1'-0"	9'-7" 1'-0"	- 1'-3"	-	-	6'-0" 1'-0"	7'-7" 1'-0"	9'-6" 1'-0"	- 1'-1"	- 1'-6"	- 1'-11"	-	-
5		8'	1'-0"	1'-0"	1'-0"	1'-5"	1'-11"	2'-6"	-	-	1'-0"	1'-0"	1'-0"	2'-4"	2'-9"	3'-2"	-	-
		10'	1'-0"	1'-0"	1'-0"	2'-8"	3'-2"	3'-9"	_	-	1'-0"	1'-0"	2'-3"	3'-7"	4'-0"	4'-5"		
		12'	1'-0"	1'-0"	2'-2"	3'-11"	4'-6"	5'-2"	_	-	1'-0"	2'-2"	3'-6"	4'-10"	5'-3"	-	_	_
	11 ⁷ /8"	14'	1'-0"	1'-9"	3'-4"	5'-2"	5'-10"	6'-6"	-	-	2'-1"	3'-5"	4'-9"	6'-1"	-	-	-	-
		16'	1'-4"	2'-10"	4'-7"	6'-6"	7'-2"	-	-	-	3'-4"	4'-8"	6'-0"	7'-7"	-	-	-	-
		18'	2'-5"	4'-1"	5'-10"	7'-11"	8'-7"	-	-	-	4'-7"	5'-11"	7'-3"	-	-	-	-	-
		20'	3'-7"	5'-3"	7'-2"	9'-3"	-	-	-	-	5'-10"	7'-2"	8'-6"	-	-	-	-	-
		22'	4'-9"	6'-6"	8'-5"	10'-8"	-	-	-	-	7'-1"	8'-5"	9'-11"	-	-	-	-	-
		24'	6'-0"	7'-9"	9'-10"	-	-	-	-	-	8'-4"	9'-8"	11'-4"	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-8"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-2"	1'-8"	2'-2"	-	-	1'-0"	1'-0"	1'-8"	2'-1"	2'-6"	2'-11"	-	-
		10'	1'-0"	1'-0"	1'-10"	2'-4"	2'-10"	3'-5"	-	-	1'-0"	1'-4"	2'-11"	3'-4"	3'-9"	4'-2"	-	-
	91/2"	12'	1'-0"	1'-2"	3'-0"	3'-7"	4'-2"	4'-9"	-	-	1'-0"	2'-7"	4'-2"	4'-7"	5'-0"	5'-6"	-	-
		14'	1'-0"	2'-3"	4'-3"	4'-10"	5'-6"	6'-1"	-	-	2'-3"	3'-10"	5'-5"	5'-10"	6'-5"	-	-	-
		16'	1'-7"	3'-5"	5'-7"	6'-2"	6'-10"	7'-6"	-	-	3'-6"	5'-1"	6'-8"	7'-3"	-	-	-	-
		18'	2'-8"	4'-8"	6'-10"	7'-6"	8'-2"	-	-	-	4'-9"	6'-4"	8'-1"	8'-8"	-	-	-	-
		20'	3'-10"	5'-11"	8'-3"	8'-10"	9'-7"	-	-	-	6'-0"	7'-7"	9'-6"	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	-	1'-0"	1'-0"	1'-0"	1'-1"	1'-6"	1'-11"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-5"	1'-11"	2'-6"	-	-	1'-0"	1'-0"	1'-0"	2'-4"	2'-9"	3'-2"	-	-
		10'	1'-0"	1'-0"	1'-0"	2'-8"	3'-2"	3'-9"	-	-	1'-0"	1'-0"	2'-3"	3'-7"	4'-0"	4'-5"	-	-
	4 4 7 4 11	12'	1'-0"	1'-0"	2'-2"	3'-11"	4'-6"	5'-2"	-	-	1'-0"	2'-2"	3'-6"	4'-10"	5'-3"	-	-	-
	11 ⁷ / ₈ "	14'	1'-0"	1'-9"	3'-4"	5'-2"	5'-10"	6'-6"	-	-	2'-1"	3'-5"	4'-9"	6'-1"	-	-	-	-
		16' 18'	1'-4" 2'-5"	2'-10" 4'-1"	4'-7" 5'-10"	6'-6" 7'-11"	7'-2" 8'-7"	-	-		3'-4" 4'-7"	4'-8" 5'-11"	6'-0" 7'-3"	7'-7"	-	-	-	-
		20'	3'-7"	5'-3"	7'-2"	9'-3"	6-7	-	-	-	5'-10"	7'-2"	7 -3 8'-6"	-	-	-	-	-
		22'	4'-9"	6'-6"	8'-5"	10'-8"	-		-	-	7'-1"	8'-5"	9'-11"		-	-		-
		24'	6'-0"	7'-9"	9'-10"	10-0			_	-	8'-4"	9'-8"	11'-4"					<u> </u>
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	2'-1"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	2'-2"	2'-10"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-6"	3'-4"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	3'-5"	4'-1"	_
30		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	3'-9"	4'-8"	_	1'-0"	1'-0"	1'-0"	2'-1"	4'-1"	4'-8"	5'-5"	_
LPI 30		14'	1'-0"	1'-0"	1'-0"	1'-8"	4'-2"	5'-0"	6'-0"	_	1'-0"	1'-0"	1'-4"	3'-4"	5'-4"	5'-11"	-	_
-		16'	1'-0"	1'-0"	1'-0"	2'-10"	5'-5"	6'-4"	7'-4"	-	1'-0"	1'-0"	2'-7"	4'-7"	6'-7"	7'-5"	-	-
	14"	18'	1'-0"	1'-0"	1'-7"	4'-0"	6'-9"	7'-8"	-	-	1'-0"	1'-10"	3'-10"	5'-10"	7'-11"	-	-	-
		20'	1'-0"	1'-0"	2'-9"	5'-2"	8'-1"	9'-1"	-	-	1'-1"	3'-1"	5'-1"	7'-1"	9'-4"	-	-	-
		22'	1'-0"	1'-7"	3'-10"	6'-5"	9'-5"	10'-6"	-	-	2'-4"	4'-4"	6'-4"	8'-4"	-	-	-	-
		24'	1'-0"	2'-8"	5'-1"	7'-8"	10'-10"	-	-		3'-7"	5'-7"	7'-7"	9'-7"	-	-	-	-
		26'	1'-7"	3'-10"	6'-3"	9'-0"	12'-2"	-	-	-	4'-10"	6'-10"	8'-10"	10'-10"	-	-	-	-
		28'	2'-8"	4'-11"	7'-6"	10'-4"	13'-7"	-	-		6'-1"	8'-1"	10'-1"	12'-2"	-	-	-	-
		30'	3'-9"	6'-1"	8'-9"	11'-8"	-	-	-	-	7'-4"	9'-4"	11'-4"	13'-7"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	3'-2"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	3'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-10"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	4'-3"	5'-2"	-	1'-0"	1'-0"	1'-0"	1'-5"	3'-3"	5'-1"	-	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-7"	-	-	1'-0"	1'-0"	1'-0"	2'-8"	4'-6"	6'-6"	-	-
		16'	1'-0"	1'-0"	1'-0"	2'-0"	4'-3"	6'-11"	-	-	1'-0"	1'-0"	2'-0"	3'-11"	5'-9"	-	-	-
	16"	18'	1'-0"	1'-0"	1'-1"	3'-1"	5'-6"	8'-3"	-	-	1'-0"	1'-5"	3'-3"	5'-2"	7'-0"	-	-	-
		20'	1'-0"	1'-0"	2'-2"	4'-4"	6'-9"	-	-	-	1'-0"	2'-8"	4'-6"	6'-5"	8'-3"	-	-	-
		22'	1'-0"	1'-3"	3'-3"	5'-6"	8'-1"	-	-	-	2'-1"	3'-11"	5'-9"	7'-8"	9'-6"	-	-	-
		24'	1'-0"	2'-4"	4'-5"	6'-9"	9'-5"	-	-	-	3'-4"	5'-2"	7'-0"	8'-11"	10'-11"	-	-	-
		26'	1'-5"	3'-5"	5'-7"	8'-0"	10'-9"	-	-	-	4'-7"	6'-5"	8'-3"	10'-2"	12'-5"	-	-	-
		28'	2'-5"	4'-6"	6'-9"	9'-3"	12'-1"	-	-	-	5'-10"	7'-8"	9'-6"	11'-5"	-	-	-	-
		30'	3'-7"	5'-8"	8'-0"	10'-7"	13'-6"	-	-	-	7'-1"	8'-11"	10'-9"	12'-8"	-	-	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

10107	JOIST	CLEAR		DISTAN	ICE FRO	M END	SUPPOR	RT (feet-	inches)		DI	STANCE	FROM	INTERIO	OR SUPP	ORT (fe	et-inche	s)
JOIST SERIES	DEPTH	SPAN	M	laximum	Hole Di	mensio	n: Depth	or Widt	h (inche	s)	M	aximum	Hole Di	mensio	n: Depth	or Widt	h (inche	s)
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	-	1'-0"	1'-0"	1'-0"	1'-1"	1'-6"	1'-11"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-5"	1'-11"	2'-6"	-	-	1'-0"	1'-0"	1'-0"	2'-4"	2'-9"	3'-2"	-	-
		10'	1'-0"	1'-0"	1'-0"	2'-8"	3'-2"	3'-9"	-	-	1'-0"	1'-0"	2'-3"	3'-7"	4'-0"	4'-5"		-
		12'	1'-0"	1'-0"	2'-2"	3'-11"	4'-6"	5'-2"	-	-	1'-0"	2'-2"	3'-6"	4'-10"	5'-3"	-	-	-
	11 ⁷ /s"	14'	1'-0"	1'-9"	3'-4"	5'-2"	5'-10"	6'-6"	-	-	2'-1"	3'-5"	4'-9"	6'-1"	-	-	-	-
	11.78	16'	1'-4"	2'-10"	4'-7"	6'-6"	7'-2"	-	-	-	3'-4"	4'-8"	6'-0"	7'-7"	-	-	-	-
		18'	2'-5"	4'-1"	5'-10"	7'-11"	8'-7"	-	-	-	4'-7"	5'-11"	7'-3"	-	-	-	-	-
		20'	3'-7"	5'-3"	7'-2"	9'-3"	-	-	-	-	5'-10"	7'-2"	8'-6"	-	-	-	-	-
		22'	4'-9"	6'-6"	8'-5"	10'-8"	-	-	-	-	7'-1"	8'-5"	9'-11"	-	-	-	-	-
		24'	6'-0"	7'-9"	9'-10"	-	-	-	-	-	8'-4"	9'-8"	11'-4"	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	2'-1"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	2'-2"	2'-10"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-6"	3'-4"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	3'-5"	4'-1"	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	3'-9"	4'-8"	-	1'-0"	1'-0"	1'-0"	2'-1"	4'-1"	4'-8"	5'-5"	-
		14'	1'-0"	1'-0"	1'-0"	1'-8"	4'-2"	5'-0"	6'-0"	-	1'-0"	1'-0"	1'-4"	3'-4"	5'-4"	5'-11"	-	-
"		16'	1'-0"	1'-0"	1'-0"	2'-10"	5'-5"	6'-4"	7'-4"	-	1'-0"	1'-0"	2'-7"	4'-7"	6'-7"	7'-5"	-	-
1 56	14"	18'	1'-0"	1'-0"	1'-7"	4'-0"	6'-9"	7'-8"	-	-	1'-0"	1'-10"	3'-10"	5'-10"	7'-11"	-	-	-
4	14	20'	1'-0"	1'-0"	2'-9"	5'-2"	8'-1"	9'-1"	-	-	1'-1"	3'-1"	5'-1"	7'-1"	9'-4"	-	-	-
36,		22'	1'-0"	1'-7"	3'-10"	6'-5"	9'-5"	10'-6"	-	-	2'-4"	4'-4"	6'-4"	8'-4"	-	-	-	-
L _P		24'	1'-0"	2'-8"	5'-1"	7'-8"	10'-10"	-	-	-	3'-7"	5'-7"	7'-7"	9'-7"	-	-	-	-
		26'	1'-7"	3'-10"	6'-3"	9'-0"	12'-2"	-	-	-	4'-10"	6'-10"	8'-10"	10'-10"	-	-	-	-
		28'	2'-8"	4'-11"	7'-6"	10'-4"	13'-7"	-	-	-	6'-1"	8'-1"	10'-1"	12'-2"	-	-	-	-
		30'	3'-9"	6'-1"	8'-9"	11'-8"	-	-	-	-	7'-4"	9'-4"	11'-4"	13'-7"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	3'-2"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	3'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-10"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	4'-3"	5'-2"	-	1'-0"	1'-0"	1'-0"	1'-5"	3'-3"	5'-1"	-	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-7"	-	-	1'-0"	1'-0"	1'-0"	2'-8"	4'-6"	6'-6"	-	-
		16'	1'-0"	1'-0"	1'-0"	2'-0"	4'-3"	6'-11"	-	-	1'-0"	1'-0"	2'-0"	3'-11"	5'-9"	-	-	-
	16"	18'	1'-0"	1'-0"	1'-1"	3'-1"	5'-6"	8'-3"	-	-	1'-0"	1'-5"	3'-3"	5'-2"	7'-0"	-	-	-
		20'	1'-0"	1'-0"	2'-2"	4'-4"	6'-9"	-	-	-	1'-0"	2'-8"	4'-6"	6'-5"	8'-3"	-	-	-
		22'	1'-0"	1'-3"	3'-3"	5'-6"	8'-1"	-	-	-	2'-1"	3'-11"	5'-9"	7'-8"	9'-6"	-	-	-
		24'	1'-0"	2'-4"	4'-5"	6'-9"	9'-5"	-	-	-	3'-4"	5'-2"	7'-0"	8'-11"	10'-11"	-	-	-
		26'	1'-5"	3'-5"	5'-7"	8'-0"	10'-9"	-	-	-	4'-7"	6'-5"	8'-3"	10'-2"	12'-5"	-	-	-
		28'	2'-5"	4'-6"	6'-9"	9'-3"	12'-1"	-	-	-	5'-10"	7'-8"	9'-6"	11'-5"	-	-	-	-
		30'	3'-7"	5'-8"	8'-0"	10'-7"	13'-6"	-	-	-	7'-1"	8'-11"	10'-9"	12'-8"	-	-	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTAN	ICE FRO	M END	SUPPO	RT (feet-	inches)		DI	STANCI	FROM	INTERIO	OR SUPE	ORT (fe	et-inche	s)
JOIST SERIES	DEPTH	SPAN	М	laximum	Hole Di	mensio	n: Depth	or Widt	h (inche	s)	M	laximum	Hole Di	mensio	n: Depth	or Widt	h (inche	s)
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	4'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	5'-4"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	5'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	3'-10"	-	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-4"	7'-3"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	5'-1"	-	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	4'-7"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	3'-7"	6'-4"	-	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	5'-10"	-	-	1'-0"	1'-0"	1'-0"	2'-2"	4'-10"	7'-7"	-	-
	18"	22'	1'-0"	1'-0"	1'-0"	1'-0"	3'-7"	7'-1"	-	-	1'-0"	1'-0"	1'-0"	3'-5"	6'-1"	8'-10"	-	-
	.0	24'	1'-0"	1'-0"	1'-0"	1'-8"	4'-9"	8'-4"	-	-	1'-0"	1'-0"	2'-0"	4'-8"	7'-4"	10'-1"	-	-
		26'	1'-0"	1'-0"	1'-0"	2'-9"	6'-0"	9'-8"	-	-	1'-0"	1'-0"	3'-3"	5'-11"	8'-7"	11'-5"	-	-
		28'	1'-0"	1'-0"	1'-0"	3'-11"	7'-2"	11'-0"	-	-	1'-0"	1'-9"	4'-6"	7'-2"	9'-10"	12'-10"	-	-
		30'	1'-0"	1'-0"	2'-0"	5'-0"	8'-5"	12'-4"	-	-	1'-0"	3'-0"	5'-9"	8'-5"	11'-1"	14'-3"	-	-
		32'	1'-0"	1'-0"	3'-1"	6'-2"	9'-8"	13'-9"	-	-	1'-7"	4'-3"	7'-0"	9'-8"	12'-4"	-	-	-
		34'	1'-0"	1'-3"	4'-2"	7'-5"	10'-11"	15'-1"	-	-	2'-10"	5'-6"	8'-3"	10'-11"	13'-7"	-	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-0"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	4'-1"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-3"	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	5'-4"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-0"	6'-6"	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	6'-7"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-3"	7'-10"	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-5"	7'-11"	-	1'-0"	1'-0"	1'-0"	1'-5"	4'-0"	6'-6"	9'-3"	-
	20"	22'	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	5'-8"	9'-4"	-	1'-0"	1'-0"	1'-0"	2'-8"	5'-3"	7'-9"	-	-
		24'	1'-0"	1'-0"	1'-0"	1'-0"	3'-9"	6'-11"	10'-8"	-	1'-0"	1'-0"	1'-5"	3'-11"	6'-6"	9'-0"	-	-
		26'	1'-0"	1'-0"	1'-0"	2'-0"	4'-11"	8'-2"	12'-1"	-	1'-0"	1'-0"	2'-8"	5'-2"	7'-9"	10'-3"	-	-
		28'	1'-0"	1'-0"	1'-0"	3'-1"	6'-1"	9'-5"	13'-5"	-	1'-0"	1'-5"	3'-11"	6'-5"	9'-0"	11'-6"	-	-
26		30'	1'-0"	1'-0"	1'-5"	4'-3"	7'-3"	10'-9"	-	-	1'-0"	2'-8"	5'-2"	7'-8"	10'-3"	12'-9"	-	-
		32'	1'-0"	1'-0"	2'-6"	5'-4"	8'-6"	12'-1"	-	-	1'-5"	3'-11"	6'-5"	8'-11"	11'-6"	14'-2"	-	-
LPI 36, LPI		34'	1'-0"	1'-0"	3'-7"	6'-6"	9'-9"	13'-5"	-	-	2'-8"	5'-2"	7'-8"	10'-2"	12'-9"	15'-7"	-	-
1 36		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	3'-11"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-2"	5'-6"	-
4		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	5'-2"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-5"	6'-9"	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-5"	6'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	5'-8"	8'-0"	-
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	4'-7"	7'-9" 9'-1"	-	1'-0"	1'-0"	1'-0"	2'-2" 3'-5"	4'-6"	6'-11"	9'-3"	-
		24' 26'	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-5"	2'-11" 4'-0"	5'-9" 7'-0"	10'-5"	-	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 2'-3"	3'-5" 4'-8"	5'-9" 7'-0"	8'-2" 9'-5"	10'-8" 12'-1"	-
	22"	28'	1'-0"	1'-0"	1'-0"	2'-6"	5'-2"	8'-3"	11'-9"		1'-0"	1'-2"	3'-6"	5'-11"	8'-3"	10'-8"	12-1	-
		30'	1'-0"	1'-0"	1'-0"	3'-7"	6'-4"	9'-6"	13'-1"	-	1'-0"	2'-5"	3-6 4'-9"	7'-2"	9'-6"	11'-11"	-	
		32'	1'-0"	1'-0"	2'-1"	4'-8"	7'-7"	10'-9"	14'-6"	-	1'-3"	3'-8"	6'-0"	8'-5"	10'-9"	13'-2"	-	
		34'	1'-0"	1'-0"	3'-2"	5'-10"	8'-10"	12'-1"	15'-11"	-	2'-6"	3-6 4'-11"	7'-3"	9'-8"	12'-0"	14'-5"	-	
		36'	1'-0"	1'-8"	4'-3"	7'-0"	10'-0"	13'-5"	17'-3"		3'-9"	6'-2"	8'-6"	10'-11"	13'-3"	15'-9"	-	
		38'	1'-0"	2'-8"	5'-4"	8'-2"	11'-3"	14'-9"	-	-	5'-0"	7'-5"	9'-9"	12'-2"	14'-6"	17'-3"	_	
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	4'-8"	7'-0"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-1"	7'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	3'-8"	5'-11"	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	5'-4"	8'-8"	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	4'-11"	7'-2"	_
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	3'-8"	6'-7"	10'-0"	1'-0"	1'-0"	1'-0"	1'-8"	3'-11"	6'-2"	8'-5"	_
		24'	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	4'-10"		-	1'-0"	1'-0"	1'-0"	2'-11"	5'-2"	7'-5"	9'-8"	
		26'	1'-0"	1'-0"	1'-0"	1'-0"	3'-4"	6'-1"	9'-2"	-	1'-0"	1'-0"	1'-11"	4'-2"	6'-5"	8'-8"	10'-11"	-
	24"	28'	1'-0"	1'-0"	1'-0"	1'-11"	4'-6"	7'-3"	10'-5"	-	1'-0"	1'-0"	3'-2"	5'-5"	7'-8"	9'-11"	12'-4"	-
		30'	1'-0"	1'-0"	1'-0"	3'-0"	5'-8"	8'-6"	11'-9"	-	1'-0"	2'-2"	4'-5"	6'-8"	8'-11"	11'-2"	13'-9"	-
		32'	1'-0"	1'-0"	1'-8"	4'-2"	6'-10"	9'-9"	13'-2"	-	1'-2"	3'-5"	5'-8"	7'-11"	10'-2"	12'-5"	15'-2"	-
		34'	1'-0"	1'-0"	2'-9"	5'-3"	8'-0"	11'-1"	14'-6"	-	2'-5"	4'-8"	6'-11"	9'-2"	11'-5"	13'-8"	-	-
		36'	1'-0"	1'-5"	3'-10"	6'-5"	9'-3"	12'-4"	15'-10"	-	3'-8"	5'-11"	8'-2"	10'-5"	12'-8"	14'-11"	-	-
		38'	1'-0"	2'-5"	4'-11"	7'-7"	10'-6"	13'-8"	17'-3"	-	4'-11"	7'-2"	9'-5"	11'-8"	13'-11"	16'-2"	-	-
		-							5				0.0		.0 .1	.0 2		

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	IOIOT	01.545		DISTAN	ICE ERC	OM END	SUPPO	RT (feet-	inches)		DI	STANCI	FROM	INTERIO	OR SLIPE	ORT (fe	et-inche	e)
JOIST	JOIST DEPTH	CLEAR SPAN	M			mensior		•		e)				mension				•
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
	` ,	6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	-	1'-0"	1'-0"	1'-0"	1'-2"	1'-6"	1'-10"		-
		8'	1'-0"	1'-0"	1'-1"	1'-6"	2'-0"	2'-6"	-	_	1'-0"	1'-0"	2'-0"	2'-5"	2'-9"	3'-1"	_	_
		10'	1'-0"	1'-0"	2'-3"	2'-9"	3'-3"	3'-9"	-	_	1'-0"	1'-10"	3'-3"	3'-8"	4'-0"	4'-5"	_	_
		12'	1'-0"	1'-8"	3'-6"	4'-0"	4'-6"	5'-1"	-	_	1'-8"	3'-1"	4'-6"	4'-11"	5'-4"	-	_	_
	91/2"	14'	1'-3"	2'-10"	4'-9"	5'-4"	5'-10"	6'-6"	-	-	2'-11"	4'-4"	5'-9"	6'-3"	-	-	-	-
		16'	2'-4"	4'-1"	6'-1"	6'-8"	7'-3"	-	-	-	4'-2"	5'-7"	7'-1"	7'-8"	-	-	-	-
		18'	3'-6"	5'-4"	7'-5"	8'-0"	-	-	-	-	5'-5"	6'-10"	8'-7"	-	-	-	-	-
		20'	4'-8"	6'-7"	8'-9"	9'-5"	-	-	-	-	6'-8"	8'-1"	-	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-4"	1'-9"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-9"	2'-3"	-	-	-	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	-	-	-
		10'	1'-0"	1'-0"	1'-6"	3'-0"	3'-6"	-	-	-	1'-0"	1'-5"	2'-8"	3'-10"	4'-3"	-	-	-
	117/8"	12'	1'-0"	1'-3"	2'-8"	4'-4"	4'-10"	-	-	-	1'-6"	2'-8"	3'-11"	5'-1"	-	-	-	-
		14'	1'-0"	2'-4"	3'-10"	5'-7"	6'-3"	-	-	-	2'-9"	3'-11"	5'-2"	6'-6"	-	-	-	-
		16'	2'-1"	3'-6"	5'-2"	7'-0"	7'-7"	-	-	-	4'-0"	5'-2"	6'-5"	-	-	-	-	-
		18'	3'-3"	4'-9"	6'-5"	8'-4"	-	-	-	-	5'-3"	6'-5"	7'-8"	-	-	-	-	-
		20'	4'-5"	6'-0"	7'-9"	-	-	-	-	-	6'-6"	7'-8"	9'-1"	-	-	-	-	-
		22'	5'-7"	7'-3"	9'-1"	-	-	-	-	-	7'-9"	8'-11"	10'-6"	-	-	-	-	-
		24'	6'-10"	8'-7"	10'-5"	-	-	-	-	-	9'-0"	10'-2"	-	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	2'-2"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	2'-11"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	3'-5"	-	-	1'-0"	1'-0"	1'-0"	2'-2"	3'-8"	4'-2"	-	-
LPI 450		12'	1'-0"	1'-0"	1'-0"	2'-1"	4'-1"	4'-9"	-	-	1'-0"	1'-0"	1'-11"	3'-5"	4'-11"	-	-	-
<u>-</u>		14'	1'-0"	1'-0"	1'-5"	3'-3"	5'-5"	6'-2"	-	-	1'-0"	1'-8"	3'-2"	4'-8"	6'-4"	-	-	-
		16'	1'-0"	1'-0"	2'-7"	4'-6"	6'-9"	7'-6"	-	-	1'-4"	2'-11"	4'-5"	5'-11"	-	-	-	-
	14"	18'	1'-0"	2'-0"	3'-9"	5'-9"	8'-1"	-	-	-	2'-7"	4'-2"	5'-8"	7'-2"	-	-	-	-
		20'	1'-5"	3'-1"	4'-11"	7'-1"	9'-6"	-	-	-	3'-10"	5'-5"	6'-11"	8'-5"	-	-	-	-
		22'	2'-6"	4'-3"	6'-2"	8'-4"	-	-	-	-	5'-1"	6'-8"	8'-2"	9'-10"	-	-	-	-
		24'	3'-7"	5'-5"	7'-5"	9'-8"	-	-	-	-	6'-4"	7'-11"	9'-5"	11'-3"	-	-	-	-
		26'	4'-9"	6'-8"	8'-9"	11'-1"	-	-	-	-	7'-7"	9'-2"	10'-8"	-	-	-	-	-
		28'	5'-11"	7'-11"	10'-0"	12'-5"	-	-	-	-	8'-10"	10'-5"	11'-11"	-	-	-	-	-
		30'	7'-1"	9'-2"	11'-4"	13'-10"	-	-	-	-	10'-1"	11'-8"	13'-4"	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-2"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	3'-10"	-	-	1'-0"	1'-0"	1'-0"	1'-8"	3'-0"	4'-6"	-	-
		12' 14'	1'-0"	1'-0"	1'-0"	1'-6" 2'-7"	3'-2" 4'-5"	5'-2"	-	-	1'-0"	1'-0"	1'-6" 2'-9"	2'-11"	4'-3" 5'-6"	-	-	-
		16'	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 2'-1"	3'-10"	5'-8"	-	-	-	1'-0"	2'-7"	4'-0"	4'-2" 5'-5"	6'-9"	-	-	-
								-	-	-	1'-3"					-	-	-
	16"	18' 20'	1'-0" 1'-3"	1'-8" 2'-9"	3'-3" 4'-5"	5'-0" 6'-4"	7'-0" 8'-5"	-	-	-	2'-6" 3'-9"	3'-10" 5'-1"	5'-3" 6'-6"	6'-8" 7'-11"	8'-2"	-	-	-
		20'	2'-4"	3'-11"		6'-4" 7'-7"	8'-5" 9'-9"	-	-		5'-0"	5'-1" 6'-4"	6'-6" 7'-9"	9'-2"	-		-	
		24'	3'-5"	5'-1"	5'-8" 6'-11"	8'-11"	11'-2"	-	-	-	6'-3"	7'-7"	9'-0"	10'-6"	-	-	-	-
		26'	3-5 4'-7"	6'-4"	8'-2"	10'-3"	12'-6"	-	-	-	7'-6"	8'-10"	10'-3"	11'-11"	-	-	-	-
		28'	5'-9"	7'-6"	9'-5"	11'-7"	12-0	-	-	-	8'-9"	10'-1"	11'-6"	13'-4"	_	_		-
		30'	6'-11"	7 -6 8'-9"	10'-9"	12'-11"	-	-	-	-	10'-0"	11'-4"	12'-9"	13-4	-	<u>-</u>	-	-
		30	0-11	0-9	10-9"	12-11	-	_	-	-	10-0"	11-4	12-9"	-	_	_	_	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	10:07	01.545		DISTAR	NCE FRO	M END	SUPPO	RT (foot-	inches\		ח	ISTANCI	F FROM	INTERIC	OR SUPE	ORT (fo	et-inche	·s)
JOIST	JOIST DEPTH	CLEAR SPAN	M						h (inche	s)		laximum						•
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
	` '	6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-8"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-2"	1'-8"	2'-2"	_	_	1'-0"	1'-0"	1'-8"	2'-1"	2'-6"	2'-11"	_	_
		10'	1'-0"	1'-0"	1'-10"	2'-4"	2'-10"	3'-5"	-	-	1'-0"	1'-4"	2'-11"	3'-4"	3'-9"	4'-2"	-	-
		12'	1'-0"	1'-2"	3'-0"	3'-7"	4'-2"	4'-9"	-	-	1'-0"	2'-7"	4'-2"	4'-7"	5'-0"	5'-6"	-	-
	91/2"	14'	1'-0"	2'-3"	4'-3"	4'-10"	5'-6"	6'-1"	-	-	2'-3"	3'-10"	5'-5"	5'-10"	6'-5"	-	-	-
		16'	1'-7"	3'-5"	5'-7"	6'-2"	6'-10"	7'-6"	-	-	3'-6"	5'-1"	6'-8"	7'-3"	-	-	-	-
		18'	2'-8"	4'-8"	6'-10"	7'-6"	8'-2"	-	-	-	4'-9"	6'-4"	8'-1"	8'-8"	-	-	-	-
		20'	3'-10"	5'-11"	8'-3"	8'-10"	9'-7"	-	-	-	6'-0"	7'-7"	9'-6"	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	-	1'-0"	1'-0"	1'-0"	1'-1"	1'-6"	1'-11"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-5"	1'-11"	2'-6"	-	-	1'-0"	1'-0"	1'-0"	2'-4"	2'-9"	3'-2"	-	-
		10'	1'-0"	1'-0"	1'-0"	2'-8"	3'-2"	3'-9"	-	-	1'-0"	1'-0"	2'-3"	3'-7"	4'-0"	4'-5"	-	-
		12'	1'-0"	1'-0"	2'-2"	3'-11"	4'-6"	5'-2"	-	-	1'-0"	2'-2"	3'-6"	4'-10"	5'-3"	-	-	-
	447/ 11	14'	1'-0"	1'-9"	3'-4"	5'-2"	5'-10"	6'-6"	-	-	2'-1"	3'-5"	4'-9"	6'-1"	-	-	-	-
	11 ⁷ / ₈ "	16'	1'-4"	2'-10"	4'-7"	6'-6"	7'-2"	-	-	-	3'-4"	4'-8"	6'-0"	7'-7"	-	-	-	-
		18'	2'-5"	4'-1"	5'-10"	7'-11"	8'-7"	-	-	-	4'-7"	5'-11"	7'-3"	-	-	-	-	-
		20'	3'-7"	5'-3"	7'-2"	9'-3"	-	-	-	-	5'-10"	7'-2"	8'-6"	-	-	-	-	-
		22'	4'-9"	6'-6"	8'-5"	10'-8"	-	-	-	-	7'-1"	8'-5"	9'-11"	-	-	-	-	-
		24'	6'-0"	7'-9"	9'-10"	-	-	-	-	-	8'-4"	9'-8"	11'-4"	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-10"	2'-7"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	2'-8"	3'-2"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	3'-1"	3'-10"	-	1'-0"	1'-0"	1'-0"	1'-8"	3'-5"	3'-11"	-	-
530		12'	1'-0"	1'-0"	1'-0"	1'-6"	3'-8"	4'-5"	5'-2"	-	1'-0"	1'-0"	1'-3"	2'-11"	4'-8"	5'-2"	-	-
LPI 530		14'	1'-0"	1'-0"	1'-0"	2'-8"	4'-11"	5'-9"	-	-	1'-0"	1'-0"	2'-6"	4'-2"	5'-11"	-	-	-
_		16'	1'-0"	1'-0"	1'-10"	3'-11"	6'-3"	7'-1"	-	-	1'-0"	2'-1"	3'-9"	5'-5"	7'-4"	-	-	-
	14"	18'	1'-0"	1'-1"	3'-0"	5'-1"	7'-7"	8'-6"	-	-	1'-8"	3'-4"	5'-0"	6'-8"	-	-	-	-
	14	20'	1'-0"	2'-2"	4'-2"	6'-5"	9'-0"	-	-	-	2'-11"	4'-7"	6'-3"	7'-11"	-	-	-	-
		22'	1'-5"	3'-4"	5'-4"	7'-8"	10'-4"	-	-	-	4'-2"	5'-10"	7'-6"	9'-2"	-	-	-	-
		24'	2'-6"	4'-5"	6'-7"	9'-0"	-	-	-	-	5'-5"	7'-1"	8'-9"	10'-7"	-	-	-	-
		26'	3'-7"	5'-8"	7'-10"	10'-4"	-	-	-	-	6'-8"	8'-4"	10'-0"	12'-0"	-	-	-	-
		28'	4'-9"	6'-10"	9'-1"	11'-8"	-	-	-	-	7'-11"	9'-7"	11'-3"	13'-6"	-	-	-	-
		30'	5'-11"	8'-1"	10'-5"	13'-0"	-	-	-	-	9'-2"	10'-10"	12'-6"	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	2'-11"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-6"	-	-	1'-0"	1'-0"	1'-0"	1'-1"	2'-8"	4'-2"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	4'-10"	-	-	1'-0"	1'-0"	1'-0"	2'-4"	3'-11"	-	-	-
		14'	1'-0"	1'-0"	1'-0"	2'-0"	3'-11"	6'-2"	-	-	1'-0"	1'-0"	2'-1"	3'-7"	5'-2"	-	-	-
		16'	1'-0"	1'-0"	1'-4"	3'-2"	5'-2"	-	-	-	1'-0"	1'-9"	3'-4"	4'-10"	6'-5"	-	-	-
	16"	18'	1'-0"	1'-0"	2'-6"	4'-4"	6'-6"	-	-	-	1'-6"	3'-0"	4'-7"	6'-1"	7'-8"	-	-	-
		20'	1'-0"	1'-10"	3'-7"	5'-7"	7'-9"	-	-	-	2'-9"	4'-3"	5'-10"	7'-4"	9'-1"	-	-	-
		22'	1'-3"	2'-11"	4'-10"	6'-10"	9'-2"	-	-	-	4'-0"	5'-6"	7'-1"	8'-7"	10'-7"	-	-	-
		24'	2'-4"	4'-1"	6'-0"	8'-1"	10'-6"	-	-	-	5'-3"	6'-9"	8'-4"	9'-10"	-	-	-	-
		26'	3'-5"	5'-3"	7'-3"	9'-5"	11'-11"	-	-	-	6'-6"	8'-0"	9'-7"	11'-2"	-	-	-	-
		28'	4'-7"	6'-5"	8'-6"	10'-9"	13'-3"	-	-	-	7'-9"	9'-3"	10'-10"	12'-7"	-	-	-	-
		30'	5'-9"	7'-8"	9'-9"	12'-1"	-	-	-	-	9'-0"	10'-6"	12'-1"	14'-0"	-	-	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

¹The hole locations listed above are valid for joists supporting only uniform loads. The total uniform load must not exceed 110 plf (e.g., 40 psf Live Load and a 15 psf Dead Load, spaced up to 24 inches o.c.). The uniform Dead Load must be at least 10 plf.

²Hole location is measured from the inside face of the nearest support to the nearest edge of a rectangular hole.

³Maximum hole depth for rectangular holes is the Joist Depth less 4 inches, except the maximum hole depth is 6 inches for 9½-inch-deep joists, and 8 inches for 11½-inch-deep joists. Maximum hole width for rectangular holes is 18 inches. Where the Maximum Hole Dimension for rectangular holes exceeds the maximum hole depth, the dimension refers to hole width and the hole depth is assumed to be the maximum for that joist depth.

⁴Holes cannot be located in the span where designated "-", without further analysis by a design professional (see note 6 below).

⁵Clear 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.

⁶Larger holes, greater uniform loads or nonuniform loads, and closer proximity to supports and other holes may be possible with further analysis (See Section 4.4 and the web hole shear equations listed in Table 10).

	10105			DISTANC	E EDOM	END SI	PPORT (f	oot-inch	oe)	וח	STANCE	FROM IN	TEDIOD	STIDDOD.	T (foot in	choe)
JOIST	JOIST DEPTH	CLEAR SPAN					•	eet-mcn		DI.					ı (ıeet-in	Liies)
SERIES	(in.)	(ft.)	2"	4"	6"	ter (inch	es) 10"	12"	Obround	2"	4"	ole Diame	ter (inche	es) 10"	12"	Obround
	` '	6'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	_	_	_	1'-0"	1'-0"	1'-0"	1'-10"	-	-	_	1'-5"
		10'	1'-0"	1'-0"	2'-1"	-	-	-	1'-6"	1'-0"	1'-3"	3'-1"	-	-	-	2'-8"
		12'	1'-0"	1'-1"	3'-3"	-	-	-	2'-8"	1'-0"	2'-6"	4'-4"	-	-	-	3'-11"
	91/2"	14'	1'-0"	2'-2"	4'-6"	-	-	-	3'-10"	1'-11"	3'-9"	5'-7"	-	-	-	5'-2"
		16'	1'-3"	3'-4"	5'-10"	-	-	-	5'-2"	3'-2"	5'-0"	6'-11"	-	-	-	6'-5"
		18'	2'-4"	4'-7"	7'-2"	-	-	-	6'-5"	4'-5"	6'-3"	8'-4"	-	-	-	7'-8"
		20'	3'-6"	5'-10"	8'-7"	-	-	-	7'-9"	5'-8"	7'-6"	9'-10"	-	-	-	9'-1"
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	-	-	1'-4"
		10'	1'-0"	1'-0"	1'-0"	1'-10"	-	-	1'-5"	1'-0"	1'-0"	1'-3"	3'-0"	-	-	2'-7"
	11 ⁷ / ₈ " -	12'	1'-0"	1'-0"	1'-0"	3'-1"	-	-	2'-7"	1'-0"	1'-0"	2'-6"	4'-3"	-	-	3'-10"
		14'	1'-0"	1'-0"	2'-1"	4'-4"	-	-	3'-10"	1'-0"	2'-0"	3'-9"	5'-6"	-	-	5'-1"
	11'/8"	16'	1'-0"	1'-3"	3'-3"	5'-7"	-	-	5'-1"	1'-6"	3'-3"	5'-0"	6'-9"	-	-	6'-4"
	117/8"	18'	1'-0"	2'-5"	4'-6"	6'-11"	-	-	6'-4"	2'-9"	4'-6"	6'-3"	8'-1"	-	-	7'-7"
		20'	1'-7"	3'-6"	5'-9"	8'-4"	-	-	7'-8"	4'-0"	5'-9"	7'-6"	9'-7"	-	-	9'-0"
		22'	2'-8"	4'-9"	7'-0"	9'-8"	-	-	9'-0"	5'-3"	7'-0"	8'-9"	11'-0"	-	-	10'-5"
		24'	3'-10"	5'-11"	8'-4"	11'-1"	-	-	10'-5"	6'-6"	8'-3"	10'-0"	-	-	-	11'-11"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	-	1'-10"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	-	2'-0"	1'-0"	1'-0"	1'-0"	1'-4"	3'-0"	-	3'-1"
LPI 18		12'	1'-0"	1'-0"	1'-0"	1'-1"	3'-1"	-	3'-3"	1'-0"	1'-0"	1'-0"	2'-7"	4'-3"	-	4'-4"
4		14'	1'-0"	1'-0"	1'-0"	2'-3"	4'-5"	-	4'-6"	1'-0"	1'-0"	2'-2"	3'-10"	5'-6"	-	5'-7"
		16'	1'-0"	1'-0"	1'-6"	3'-5"	5'-8"	-	5'-9"	1'-0"	1'-9"	3'-5"	5'-1"	6'-9"	-	6'-10"
	14"	18'	1'-0"	1'-0"	2'-7"	4'-8"	7'-0"	-	7'-1"	1'-4"	3'-0"	4'-8"	6'-4"	8'-2"	-	8'-3"
	1.7	20'	1'-0"	1'-10"	3'-9"	5'-11"	8'-4"	-	8'-6"	2'-7"	4'-3"	5'-11"	7'-7"	9'-7"	-	9'-9"
		22'	1'-1"	2'-11"	4'-11"	7'-2"	9'-9"	-	9'-10"	3'-10"	5'-6"	7'-2"	8'-10"	-	-	-
		24'	2'-2"	4'-1"	6'-2"	8'-6"	11'-1"	-	11'-3"	5'-1"	6'-9"	8'-5"	10'-1"	-	-	-
		26'	3'-3"	5'-3"	7'-5"	9'-9"	12'-6"	-	12'-8"	6'-4"	8'-0"	9'-8"	11'-6"	-	-	-
		28'	4'-5"	6'-5"	8'-8"	11'-2"	13'-11"	-	-	7'-7"	9'-3"	10'-11"	12'-11"	-	-	-
		30'	5'-7"	7'-8"	9'-11"	12'-6"	-	-	-	8'-10"	10'-6"	12'-2"	14'-4"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	2'-2"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	2'-5"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-1"	3'-5"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	3'-3"	3'-8"	1'-0"	1'-0"	1'-0"	1'-1"	2'-9"	4'-4"	4'-8"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	4'-6"	4'-11"	1'-0"	1'-0"	1'-0"	2'-4"	4'-0"	5'-7"	5'-11"
		16'	1'-0"	1'-0"	1'-0"	1'-8"	3'-7"	5'-10"	6'-3"	1'-0"	1'-0"	2'-0"	3'-7"	5'-3"	6'-10"	7'-3"
	16"	18'	1'-0"	1'-0"	1'-0"	2'-10"	4'-10"	7'-2"	7'-7"	1'-0"	1'-7"	3'-3"	4'-10"	6'-6"	8'-3"	8'-9"
	16"	20'	1'-0"	1'-0"	2'-1"	4'-0"	6'-1"	8'-6"	9'-0"	1'-3"	2'-10"	4'-6"	6'-1"	7'-9"	9'-9"	-
		22'	1'-0"	1'-5"	3'-2"	5'-2"	7'-4"	9'-11"	10'-5"	2'-6"	4'-1"	5'-9"	7'-4"	9'-0"	-	-
		24'	1'-0"	2'-6"	4'-4"	6'-5"	8'-8"	11'-3"	11'-10"	3'-9"	5'-4"	7'-0"	8'-7"	10'-3"	-	-
		26'	1'-10"	3'-7"	5'-6"	7'-8"	10'-0"	12'-8"	-	5'-0"	6'-7"	8'-3"	9'-10"	11'-8"	-	-
		28'	2'-11"	4'-9"	6'-9"	8'-11"	11'-4"	-	-	6'-3"	7'-10"	9'-6"	11'-1"	13'-1"	-	-
		30'	4'-0"	5'-11"	8'-0"	10'-2"	12'-8"	-	-	7'-6"	9'-1"	10'-9"	12'-4"	14'-7"	-	-

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTANC	E FROM	END SU	PPORT (feet-inch	es)	DI	STANCE	FROM IN	TERIOR	SUPPOR	T (feet-in	ches)
JOIST SERIES	DEPTH	SPAN		Но	le Diame	ter (inch	es)				Но	le Diame	ter (inch	es)	-	
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"
		10'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	2'-3"
		12'	1'-0"	1'-0"	1'-0"	-	-	-	2'-2"	1'-0"	1'-0"	1'-10"	-	-	-	3'-6"
	91/2"	14'	1'-0"	1'-0"	1'-5"	-	-	-	3'-4"	1'-0"	1'-5"	3'-1"	-	-	-	4'-9"
		16'	1'-0"	1'-0"	2'-6"	-	-	-	4'-7"	1'-0"	2'-8"	4'-4"	-	-	-	6'-0"
		18'	1'-0"	1'-9"	3'-8"	-	-	-	5'-10"	2'-3"	3'-11"	5'-7"	-	-	-	7'-3"
		20'	1'-0"	2'-10"	4'-11"	-	-	-	7'-2"	3'-6"	5'-2"	6'-10"	-	-	-	8'-6"
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	2'-2"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	2'-1"	1'-0"	1'-0"	1'-0"	2'-2"	-	-	3'-5"
sn_	447/ 11	14'	1'-0"	1'-0"	1'-0"	1'-9"	-	-	3'-3"	1'-0"	1'-0"	2'-1"	3'-5"	-	-	4'-8"
52P	11 ⁷ / ₈ "	16'	1'-0"	1'-0"	1'-4"	2'-11"	-	-	4'-6"	1'-0"	2'-0"	3'-4"	4'-8"	-	-	5'-11"
LPI 20Plus, LPI 20x4, LPI 32Plus, LPI 42Plus, LPI 52Plus		18'	1'-0"	1'-0"	2'-6"	4'-1"	-	-	5'-9"	1'-10"	3'-3"	4'-7"	5'-11"	-	-	7'-2"
, L		20'	1'-0"	2'-1"	3'-7"	5'-4"	-	-	7'-1"	3'-1"	4'-6"	5'-10"	7'-2"	-	-	8'-5"
ä		22'	1'-8"	3'-2"	4'-10"	6'-7"	-	-	8'-4"	4'-4"	5'-9"	7'-1"	8'-5"	-	-	9'-9"
42F		24'	2'-9"	4'-4"	6'-0"	7'-10"	-	-	9'-9"	5'-7"	7'-0"	8'-4"	9'-8"	-	-	11'-3"
<u> </u>		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-5"
s, L		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-7"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	2'-8"
급		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	2'-9"	1'-0"	1'-0"	1'-0"	1'-4"	2'-6"	-	3'-11"
32		14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	4'-0"	1'-0"	1'-0"	1'-5"	2'-7"	3'-9"	-	5'-2"
5		16'	1'-0"	1'-0"	1'-0"	1'-11"	3'-4"	-	5'-3"	1'-0"	1'-7"	2'-8"	3'-10"	5'-0"	-	6'-5"
4,	14"	18'	1'-0"	1'-0"	1'-9"	3'-1"	4'-6"	-	6'-7"	1'-8"	2'-10"	3'-11"	5'-1"	6'-3"	-	7'-9"
20	14	20'	1'-0"	1'-7"	2'-11"	4'-3"	5'-9"	-	7'-11"	2'-11"	4'-1"	5'-2"	6'-4"	7'-6"	-	9'-2"
<u> </u>		22'	1'-5"	2'-9"	4'-1"	5'-6"	7'-0"	-	9'-3"	4'-2"	5'-4"	6'-5"	7'-7"	8'-9"	-	10'-8"
s, L		24'	2'-6"	3'-10"	5'-3"	6'-9"	8'-4"	-	10'-8"	5'-5"	6'-7"	7'-8"	8'-10"	10'-0"	-	-
₹		26'	3'-8"	5'-0"	6'-5"	8'-0"	9'-8"	-	12'-0"	6'-8"	7'-10"	8'-11"	10'-1"	11'-4"	-	-
20		28'	4'-10"	6'-2"	7'-8"	9'-3"	11'-0"	-	13'-5"	7'-11"	9'-1"	10'-2"	11'-4"	12'-9"	-	-
5		30'	6'-0"	7'-5"	8'-11"	10'-7"	12'-4"	-	14'-10"	9'-2"	10'-4"	11'-5"	12'-7"	14'-3"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-1"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	3'-2"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-9"	4'-4"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	2'-6"	4'-5"	1'-0"	1'-0"	1'-0"	2'-0"	3'-0"	4'-0"	5'-7"
		16'	1'-0"	1'-0"	1'-0"	1'-4"	2'-5"	3'-8"	5'-9"	1'-0"	1'-3"	2'-3"	3'-3"	4'-3"	5'-3"	6'-10"
	16"	18'	1'-0"	1'-0"	1'-4"	2'-5"	3'-7"	4'-11"	7'-1"	1'-6"	2'-6"	3'-6"	4'-6"	5'-6"	6'-6"	8'-3"
	10	20'	1'-0"	1'-4"	2'-5"	3'-7"	4'-10"	6'-2"	8'-5"	2'-9"	3'-9"	4'-9"	5'-9"	6'-9"	7'-9"	9'-8"
		22'	1'-4"	2'-5"	3'-6"	4'-9"	6'-1"	7'-5"	9'-10"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	-
		24'	2'-5"	3'-6"	4'-8"	6'-0"	7'-4"	8'-9"	11'-3"	5'-3"	6'-3"	7'-3"	8'-3"	9'-3"	10'-4"	-
		26'	3'-6"	4'-8"	5'-11"	7'-2"	8'-7"	10'-1"	12'-8"	6'-6"	7'-6"	8'-6"	9'-6"	10'-6"	11'-9"	-
		28'	4'-8"	5'-10"	7'-1"	8'-6"	9'-11"	11'-5"	-	7'-9"	8'-9"	9'-9"	10'-9"	11'-9"	13'-3"	-
ı		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"	-

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTANC	F FROM	END SUP	PORT (fe	et-inches	1	DIS	STANCE F	ROM INT	ERIOR S	UPPORT	(feet-inch	nes)
JOIST	DEPTH	SPAN		510171110		iameter (i	•	01 11101100	,		71711021		iameter (i		1001 1101	100)
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	2"	4"	6"	8"	10"	12"	14"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-11"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-2"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	4'-8"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	4'-3"	6'-5"
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	5'-11"	1'-0"	1'-0"	1'-0"	1'-3"	3'-4"	5'-6"	7'-8"
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	4'-5"	7'-3"	1'-0"	1'-0"	1'-0"	2'-6"	4'-7"	6'-9"	8'-11"
	18"	24'	1'-0"	1'-0"	1'-0"	1'-0"	3'-1"	5'-7"	8'-6"	1'-0"	1'-0"	1'-7"	3'-9"	5'-10"	8'-0"	10'-2"
		26'	1'-0"	1'-0"	1'-0"	1'-10"	4'-2"	6'-10"	9'-10"	1'-0"	1'-0"	2'-10"	5'-0"	7'-1"	9'-3"	11'-6"
		28'	1'-0"	1'-0"	1'-0"	2'-10"	5'-4"	8'-1"	11'-2"	1'-0"	2'-0"	4'-1"	6'-3"	8'-4"	10'-6"	13'-0"
		30'	1'-0"	1'-0"	1'-8"	4'-0"	6'-6"	9'-4"	12'-7"	1'-1"	3'-3"	5'-4"	7'-6"	9'-7"	11'-9"	14'-5"
		32'	1'-0"	1'-0"	2'-9"	5'-1"	7'-9"	10'-8"	13'-11"	2'-4"	4'-6"	6'-7"	8'-9"	10'-10"	13'-0"	15'-11"
		34'	1'-0"	1'-6"	3'-10"	6'-3"	9'-0"	11'-11"	15'-4"	3'-7"	5'-9"	7'-10"	10'-0"	12'-1"	14'-3"	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"
	20"	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-8"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	3'-0"	4'-11"
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	4'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-3"	6'-2"
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-3"	1'-0"	1'-0"	1'-0"	1'-8"	3'-7"	5'-6"	7'-5"
		24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	4'-0"	6'-5"	1'-0"	1'-0"	1'-0"	2'-11"	4'-10"	6'-9"	8'-8"
		26'	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-2"	7'-8"	1'-0"	1'-0"	2'-3"	4'-2"	6'-1"	8'-0"	9'-11"
<u>s</u>		28'	1'-0"	1'-0"	1'-0"	1'-11"	4'-1"	6'-5"	9'-0"	1'-0"	1'-7"	3'-6"	5'-5"	7'-4"	9'-3"	11'-2"
52Plus		30'	1'-0"	1'-0"	1'-0"	3'-0"	5'-3"	7'-7"	10'-3"	1'-0"	2'-10"	4'-9"	6'-8"	8'-7"	10'-6"	12'-5"
1 52		32'	1'-0"	1'-0"	2'-0"	4'-2"	6'-5"	8'-10"	11'-7"	2'-2"	4'-1"	6'-0"	7'-11"	9'-10"	11'-9"	13'-8"
LPI 42Plus, LPI		34'	1'-0"	1'-1"	3'-1"	5'-3"	7'-7"	10'-1"	12'-11"	3'-5"	5'-4"	7'-3"	9'-2"	11'-1"	13'-0"	15'-1"
us,		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"
2PI		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	3'-8"
4 -		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	3'-2"	4'-11"
5		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-8"	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	4'-5"	6'-2"
	20"	24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	4'-11"	1'-0"	1'-0"	1'-0"	2'-2"	3'-11"	5'-8"	7'-5"
	22"	26'	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-11"	6'-1"	1'-0"	1'-0"	1'-9"	3'-5"	5'-2"	6'-11"	8'-8"
	22	28'	1'-0"	1'-0"	1'-0"	1'-3"	3'-1"	5'-1"	7'-4"	1'-0"	1'-3"	3'-0"	4'-8"	6'-5"	8'-2"	9'-11"
		30'	1'-0"	1'-0"	1'-0"	2'-3"	4'-2"	6'-3"	8'-7"	1'-0"	2'-6"	4'-3"	5'-11"	7'-8"	9'-5"	11'-2"
		32'	1'-0"	1'-0"	1'-6"	3'-4"	5'-4"	7'-6"	9'-10"	2'-0"	3'-9"	5'-6"	7'-2"	8'-11"	10'-8"	12'-5"
		34'	1'-0"	1'-0"	2'-6"	4'-6"	6'-6"	8'-9"	11'-1"	3'-3"	5'-0"	6'-9"	8'-5"	10'-2"	11'-11"	13'-8"
		36'	1'-0"	1'-9"	3'-7"	5'-7"	7'-8"	9'-11"	12'-5"	4'-6"	6'-3"	8'-0"	9'-8"	11'-5"	13'-2"	14'-11"
		38'	1'-0"	2'-10"	4'-9"	6'-9"	8'-11"	11'-3"	13'-8"	5'-9"	7'-6"	9'-3"	10'-11"	12'-8"	14'-5"	16'-2"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	2'-8"
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	3'-11"
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-7"	5'-2"
		24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	3'-8"	1'-0"	1'-0"	1'-0"	1'-7"	3'-3"	4'-10"	6'-5"
	24"	26'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	2'-11"	4'-10"	1'-0"	1'-0"	1'-3"	2'-10"	4'-6"	6'-1"	7'-8"
		28'	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	4'-1"	6'-0"	1'-0"	1'-0"	2'-6"	4'-1"	5'-9"	7'-4"	8'-11"
		30'	1'-0"	1'-0"	1'-0"	1'-8"	3'-5"	5'-3"	7'-2"	1'-0"	2'-2"	3'-9"	5'-4"	7'-0"	8'-7"	10'-2"
	22"	32'	1'-0"	1'-0"	1'-0"	2'-9"	4'-6"	6'-5"	8'-5"	1'-10"	3'-5"	5'-0"	6'-7"	8'-3"	9'-10"	11'-5"
		34'	1'-0"	1'-0"	2'-1"	3'-10"	5'-8"	7'-7"	9'-8"	3'-1"	4'-8"	6'-3"	7'-10"	9'-6"	11'-1"	12'-8"
		36'	1'-0"	1'-5"	3'-2"	4'-11"	6'-10"	8'-10"	10'-11"	4'-4"	5'-11"	7'-6"	9'-1"	10'-9"	12'-4"	13'-11"
		38'	1'-0"	2'-6"	4'-3"	6'-1"	8'-0"	10'-0"	12'-3"	5'-7"	7'-2"	8'-9"	10'-4"	12'-0"	13'-7"	15'-2"

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

	IOIOT	01.545		DISTANC	E EDOM	END SIII	PPORT (f	eet-inche	ne)	DIS	STANCE	EDOM IN	TERIOR	SUPPORT	T (feet-ing	choe)
JOIST	JOIST DEPTH	CLEAR SPAN				ter (inche		eet-mene	-5)	Di		le Diame			i (ieet-iii	
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-3"	-	-	-	-
		10'	1'-0"	1'-0"	1'-3"	-	-	-	-	1'-0"	1'-0"	2'-6"	-	-	-	-
	91/2"	12'	1'-0"	1'-0"	2'-5"	-	-	-	-	1'-0"	1'-9"	3'-9"	-	-	-	-
		14'	1'-0"	1'-3"	3'-8"	-	-	-	-	1'-0"	3'-0"	5'-0"	-	-	-	-
		16'	1'-0"	2'-4"	4'-11"	-	-	-	-	2'-3"	4'-3"	6'-3"	-	-	-	-
		18'	1'-3"	3'-6"	6'-2"	-	-	-	-	3'-6"	5'-6"	7'-6"	-	-	-	-
92		20'	2'-4"	4'-9"	7'-6"	-	-	-	-	4'-9"	6'-9"	8'-10"	-	-	-	-
LPI 26		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-
_		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-7"	-	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-9"	-	-	-	1'-0"	1'-0"	1'-3"	2'-10"	-	-	-
		12'	1'-0"	1'-0"	1'-1"	2'-11"	-	-	-	1'-0"	1'-0"	2'-6"	4'-1"	-	-	-
	11 ⁷ / ₈ "	14'	1'-0"	1'-0"	2'-2"	4'-2"	-	-	-	1'-0"	2'-2"	3'-9"	5'-4"	-	-	-
		16'	1'-0"	1'-6"	3'-4"	5'-6"	-	-	-	1'-10"	3'-5"	5'-0"	6'-7"	-	-	-
		18'	1'-0"	2'-7"	4'-7"	6'-10"	-	-	-	3'-1"	4'-8"	6'-3"	8'-0"	-	-	-
		20'	1'-11"	3'-9"	5'-9"	8'-2"	-	-	-	4'-4"	5'-11"	7'-6"	9'-5"	-	-	-
		22'	3'-0"	4'-11"	7'-1"	9'-6"	-	-	-	5'-7"	7'-2"	8'-9"	10'-11"	-	-	-
		24'	4'-2"	6'-2"	8'-4"	10'-11"	-	-	-	6'-10"	8'-5"	10'-0"	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	-	-	-	1'-5"	1'-0"	1'-0"	1'-0"	-	-	-	2'-3"
		10'	1'-0"	1'-0"	1'-0"	-	-	-	2'-7"	1'-0"	1'-0"	1'-0"	-	-	-	3'-6"
	91/2"	12'	1'-0"	1'-0"	1'-0"	-	-	-	3'-10"	1'-0"	1'-0"	1'-10"	-	-	-	4'-9"
		14'	1'-0"	1'-0"	1'-5"	-	-	-	5'-2"	1'-0"	1'-5"	3'-1"	-	-	-	6'-1"
		16'	1'-0"	1'-0"	2'-6"	-	-	-	6'-6"	1'-0"	2'-8"	4'-4"	-	-	-	7'-6"
		18'	1'-0"	1'-9"	3'-8"	-	-	-	7'-11"	2'-3"	3'-11"	5'-7"	-	-	-	-
		20'	1'-0"	2'-10"	4'-11"	-	-	-	9'-3"	3'-6"	5'-2"	6'-10"	-	-	-	41.01
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-5"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	2'-3"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	2'-7"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	3'-6"
	11 ⁷ /8"	12' 14'	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-9"	-	-	3'-10" 5'-2"	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 2'-1"	2'-2" 3'-5"	-	-	4'-9" 6'-1"
	11.78	16'	1'-0"	1'-0"	1'-4"	2'-11"		-	6'-6"	1'-0"	2'-0"	3'-4"	4'-8"	_	-	7'-6"
		18'	1'-0"	1'-0"	2'-6"	4'-1"			7'-11"	1'-10"	3'-3"	4'-7"	5'-11"		_	7-0
		20'	1'-0"	2'-1"	3'-7"	5'-4"	-	_	9'-3"	3'-1"	4'-6"	5'-10"	7'-2"	-	-	
		22'	1'-8"	3'-2"	4'-10"	6'-7"	_	_	10'-8"	4'-4"	5'-9"	7'-1"	8'-5"	_	_	_
		24'	2'-9"	4'-4"	6'-0"	7'-10"	_	_	-	5'-7"	7'-0"	8'-4"	9'-8"	_	_	_
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	_	1'-5"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	2'-3"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	_	2'-7"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	3'-6"
30		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	_	3'-10"	1'-0"	1'-0"	1'-0"	1'-4"	2'-6"	-	4'-9"
5		14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	5'-2"	1'-0"	1'-0"	1'-5"	2'-7"	3'-9"	-	6'-1"
_		16'	1'-0"	1'-0"	1'-0"	1'-11"	3'-4"	-	6'-6"	1'-0"	1'-7"	2'-8"	3'-10"	5'-0"	-	7'-6"
	14"	18'	1'-0"	1'-0"	1'-9"	3'-1"	4'-6"	-	7'-11"	1'-8"	2'-10"	3'-11"	5'-1"	6'-3"	-	_
		20'	1'-0"	1'-7"	2'-11"	4'-3"	5'-9"	-	9'-3"	2'-11"	4'-1"	5'-2"	6'-4"	7'-6"	-	-
		22'	1'-5"	2'-9"	4'-1"	5'-6"	7'-0"	-	10'-8"	4'-2"	5'-4"	6'-5"	7'-7"	8'-9"	-	-
		24'	2'-6"	3'-10"	5'-3"	6'-9"	8'-4"	-	-	5'-5"	6'-7"	7'-8"	8'-10"	10'-0"	-	-
		26'	3'-8"	5'-0"	6'-5"	8'-0"	9'-8"	-	-	6'-8"	7'-10"	8'-11"	10'-1"	11'-4"	-	
		28'	4'-10"	6'-2"	7'-8"	9'-3"	11'-0"	-	-	7'-11"	9'-1"	10'-2"	11'-4"	12'-9"	-	-
		30'	6'-0"	7'-5"	8'-11"	10'-7"	12'-4"	-	-	9'-2"	10'-4"	11'-5"	12'-7"	14'-3"	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-6"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	3'-10"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-9"	4'-9"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	2'-6"	5'-2"	1'-0"	1'-0"	1'-0"	2'-0"	3'-0"	4'-0"	6'-1"
		16'	1'-0"	1'-0"	1'-0"	1'-4"	2'-5"	3'-8"	6'-6"	1'-0"	1'-3"	2'-3"	3'-3"	4'-3"	5'-3"	7'-6"
	16"	18'	1'-0"	1'-0"	1'-4"	2'-5"	3'-7"	4'-11"	7'-11"	1'-6"	2'-6"	3'-6"	4'-6"	5'-6"	6'-6"	-
		20'	1'-0"	1'-4"	2'-5"	3'-7"	4'-10"	6'-2"	9'-3"	2'-9"	3'-9"	4'-9"	5'-9"	6'-9"	7'-9"	-
		22'	1'-4"	2'-5"	3'-6"	4'-9"	6'-1"	7'-5"	10'-8"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	-
		24'	2'-5"	3'-6"	4'-8"	6'-0"	7'-4"	8'-9"	-	5'-3"	6'-3"	7'-3"	8'-3"	9'-3"	10'-4"	-
		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"	-
		28'	4'-8"	5'-10"	7'-1"	8'-6"	9'-11"	11'-5"	-	7'-9"	8'-9"	9'-9"	10'-9"	11'-9"	13'-3"	-
		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"	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

10107	JOIST	CLEAR		DISTANC	E FROM	END SU	PPORT (1	eet-inche	es)	DI	STANCE	FROM IN	TERIOR	SUPPORT	Γ (feet-ind	ches)
JOIST SERIES	DEPTH	SPAN		Ho	le Diame	ter (inch	es)		01		Ho	le Diame	ter (inch	es)		01
SEINIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-10"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	2'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	-	3'-1"
		12'	1'-0"	1'-0"	1'-0"	1'-1"	-	-	3'-3"	1'-0"	1'-0"	1'-0"	2'-6"	-	-	4'-4"
	11 ⁷ /8"	14'	1'-0"	1'-0"	1'-0"	2'-2"	-	-	4'-6"	1'-0"	1'-0"	1'-8"	3'-9"	-	-	5'-7"
	11./8	16'	1'-0"	1'-0"	1'-0"	3'-4"	-	-	5'-10"	1'-0"	1'-0"	2'-11"	5'-0"	-	-	6'-10"
		18'	1'-0"	1'-0"	2'-0"	4'-7"	-	-	7'-2"	1'-0"	2'-1"	4'-2"	6'-3"	-	-	8'-3"
		20'	1'-0"	1'-0"	3'-2"	5'-10"	-	-	8'-6"	1'-3"	3'-4"	5'-5"	7'-6"	-	-	9'-9"
		22'	1'-0"	1'-11"	4'-4"	7'-1"	-	-	9'-11"	2'-6"	4'-7"	6'-8"	8'-9"	-	-	-
		24'	1'-0"	3'-0"	5'-6"	8'-5"	-	-	11'-3"	3'-9"	5'-10"	7'-11"	10'-0"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-10"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	-	3'-1"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	-	3'-3"	1'-0"	1'-0"	1'-0"	1'-3"	3'-1"	-	4'-4"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	-	4'-6"	1'-0"	1'-0"	1'-0"	2'-6"	4'-4"	-	5'-7"
ဖ		16'	1'-0"	1'-0"	1'-0"	1'-10"	4'-0"	-	5'-10"	1'-0"	1'-0"	2'-0"	3'-9"	5'-7"	-	6'-10"
1 56	14"	18'	1'-0"	1'-0"	1'-0"	3'-0"	5'-3"	-	7'-2"	1'-0"	1'-5"	3'-3"	5'-0"	6'-10"	-	8'-3"
4	'4	20'	1'-0"	1'-0"	2'-1"	4'-2"	6'-6"	-	8'-6"	1'-0"	2'-8"	4'-6"	6'-3"	8'-1"	-	9'-9"
LPI 36,		22'	1'-0"	1'-3"	3'-2"	5'-4"	7'-10"	-	9'-11"	2'-2"	3'-11"	5'-9"	7'-6"	9'-4"	-	-
<u> </u>		24'	1'-0"	2'-4"	4'-4"	6'-7"	9'-2"	-	11'-3"	3'-5"	5'-2"	7'-0"	8'-9"	10'-8"	-	-
_		26'	1'-5"	3'-5"	5'-6"	7'-10"	10'-6"	-	12'-8"	4'-8"	6'-5"	8'-3"	10'-0"	12'-2"	-	-
		28'	2'-6"	4'-6"	6'-9"	9'-2"	11'-10"	-	-	5'-11"	7'-8"	9'-6"	11'-3"	13'-7"	-	-
		30'	3'-7"	5'-8"	7'-11"	10'-5"	13'-3"	-	-	7'-2"	8'-11"	10'-9"	12'-6"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	3'-1"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	3'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	3'-6"	4'-4"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-4"	4'-6"	1'-0"	1'-0"	1'-0"	1'-7"	3'-2"	4'-9"	5'-7"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	4'-7"	5'-10"	1'-0"	1'-0"	1'-4"	2'-10"	4'-5"	6'-0"	6'-10"
	16"	18'	1'-0"	1'-0"	1'-0"	2'-0"	3'-10"	5'-11"	7'-2"	1'-0"	1'-0"	2'-7"	4'-1"	5'-8"	7'-3"	8'-3"
	10	20'	1'-0"	1'-0"	1'-4"	3'-1"	5'-0"	7'-2"	8'-6"	1'-0"	2'-3"	3'-10"	5'-4"	6'-11"	8'-6"	9'-9"
		22'	1'-0"	1'-0"	2'-5"	4'-3"	6'-3"	8'-6"	9'-11"	1'-11"	3'-6"	5'-1"	6'-7"	8'-2"	9'-11"	-
		24'	1'-0"	1'-10"	3'-7"	5'-5"	7'-6"	9'-10"	11'-3"	3'-2"	4'-9"	6'-4"	7'-10"	9'-5"	11'-4"	-
		26'	1'-3"	2'-11"	4'-8"	6'-8"	8'-10"	11'-3"	12'-8"	4'-5"	6'-0"	7'-7"	9'-1"	10'-8"	12'-10"	-
		28'	2'-3"	4'-0"	5'-11"	7'-11"	10'-1"	12'-7"	-	5'-8"	7'-3"	8'-10"	10'-4"	11'-11"	-	-
		30'	3'-4"	5'-2"	7'-1"	9'-2"	11'-5"	14'-0"	-	6'-11"	8'-6"	10'-1"	11'-7"	13'-5"	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR	ı	DISTANC	E FROM I	END SUP	PORT (fe	et-inches)	DIS	TANCE F	ROM INT	ERIOR S	UPPORT	(feet-inch	nes)
JOIST SERIES	DEPTH	SPAN			Hole D	iameter (i	nches)					Hole D	iameter (i	inches)		
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	2"	4"	6"	8"	10"	12"	14"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-11"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-2"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	4'-8"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	4'-3"	6'-5"
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	5'-11"	1'-0"	1'-0"	1'-0"	1'-3"	3'-4"	5'-6"	7'-8"
	400	22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	4'-5"	7'-3"	1'-0"	1'-0"	1'-0"	2'-6"	4'-7"	6'-9"	8'-11"
	18"	24'	1'-0"	1'-0"	1'-0"	1'-0"	3'-1"	5'-7"	8'-6"	1'-0"	1'-0"	1'-7"	3'-9"	5'-10"	8'-0"	10'-2"
		26'	1'-0"	1'-0"	1'-0"	1'-10"	4'-2"	6'-10"	9'-10"	1'-0"	1'-0"	2'-10"	5'-0"	7'-1"	9'-3"	11'-6"
		28'	1'-0"	1'-0"	1'-0"	2'-10"	5'-4"	8'-1"	11'-2"	1'-0"	2'-0"	4'-1"	6'-3"	8'-4"	10'-6"	13'-0"
		30'	1'-0"	1'-0"	1'-8"	4'-0"	6'-6"	9'-4"	12'-7"	1'-1"	3'-3"	5'-4"	7'-6"	9'-7"	11'-9"	14'-5"
		32'	1'-0"	1'-0"	2'-9"	5'-1"	7'-9"	10'-8"	13'-11"	2'-4"	4'-6"	6'-7"	8'-9"	10'-10"	13'-0"	15'-11"
		34'	1'-0"	1'-6"	3'-10"	6'-3"	9'-0"	11'-11"	15'-4"	3'-7"	5'-9"	7'-10"	10'-0"	12'-1"	14'-3"	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"
	20"	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-8"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	3'-0"	4'-11"
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	4'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-3"	6'-2"
	"	22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-3"	1'-0"	1'-0"	1'-0"	1'-8"	3'-7"	5'-6"	7'-5"
	20"	24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	4'-0"	6'-5"	1'-0"	1'-0"	1'-0"	2'-11"	4'-10"	6'-9"	8'-8"
		26'	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	5'-2"	7'-8"	1'-0"	1'-0"	2'-3"	4'-2"	6'-1"	8'-0"	9'-11"
		28'	1'-0"	1'-0"	1'-0"	1'-11"	4'-1"	6'-5"	9'-0"	1'-0"	1'-7"	3'-6"	5'-5"	7'-4"	9'-3"	11'-2"
,		30'	1'-0"	1'-0"	1'-0"	3'-0"	5'-3"	7'-7"	10'-3"	1'-0"	2'-10"	4'-9"	6'-8"	8'-7"	10'-6"	12'-5"
1 56		32'	1'-0"	1'-0"	2'-0"	4'-2"	6'-5"	8'-10"	11'-7"	2'-2"	4'-1"	6'-0"	7'-11"	9'-10"	11'-9"	13'-8"
4		34'	1'-0"	1'-1"	3'-1"	5'-3"	7'-7"	10'-1"	12'-11"	3'-5"	5'-4"	7'-3"	9'-2"	11'-1"	13'-0"	15'-1"
36,		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"
P		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	3'-8"
_		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	3'-2"	4'-11"
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-8"	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	4'-5"	6'-2"
		24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	4'-11"	1'-0"	1'-0"	1'-0"	2'-2"	3'-11"	5'-8"	7'-5"
	22"	26'	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-11"	6'-1"	1'-0"	1'-0"	1'-9"	3'-5"	5'-2"	6'-11"	8'-8"
	22	28'	1'-0"	1'-0"	1'-0"	1'-3"	3'-1"	5'-1"	7'-4"	1'-0"	1'-3"	3'-0"	4'-8"	6'-5"	8'-2"	9'-11"
		30'	1'-0"	1'-0"	1'-0"	2'-3"	4'-2"	6'-3"	8'-7"	1'-0"	2'-6"	4'-3"	5'-11"	7'-8"	9'-5"	11'-2"
		32'	1'-0"	1'-0"	1'-6"	3'-4"	5'-4"	7'-6"	9'-10"	2'-0"	3'-9"	5'-6"	7'-2"	8'-11"	10'-8"	12'-5"
		34'	1'-0"	1'-0"	2'-6"	4'-6"	6'-6"	8'-9"	11'-1"	3'-3"	5'-0"	6'-9"	8'-5"	10'-2"	11'-11"	13'-8"
		36'	1'-0"	1'-9"	3'-7"	5'-7"	7'-8"	9'-11"	12'-5"	4'-6"	6'-3"	8'-0"	9'-8"	11'-5"	13'-2"	14'-11"
		38'	1'-0"	2'-10"	4'-9"	6'-9"	8'-11"	11'-3"	13'-8"	5'-9"	7'-6"	9'-3"	10'-11"	12'-8"	14'-5"	16'-2"
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	2'-8"
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	3'-11"
		22'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-7"	5'-2"
		24'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	3'-8"	1'-0"	1'-0"	1'-0"	1'-7"	3'-3"	4'-10"	6'-5"
	24"	26'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	2'-11"	4'-10"	1'-0"	1'-0"	1'-3"	2'-10"	4'-6"	6'-1"	7'-8"
		28'	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	4'-1"	6'-0"	1'-0"	1'-0"	2'-6"	4'-1"	5'-9"	7'-4"	8'-11"
		30'	1'-0"	1'-0"	1'-0"	1'-8"	3'-5"	5'-3"	7'-2"	1'-0"	2'-2"	3'-9"	5'-4"	7'-0"	8'-7"	10'-2"
	22"	32'	1'-0"	1'-0"	1'-0"	2'-9"	4'-6"	6'-5"	8'-5"	1'-10"	3'-5"	5'-0"	6'-7"	8'-3"	9'-10"	11'-5"
		34'	1'-0"	1'-0"	2'-1"	3'-10"	5'-8"	7'-7"	9'-8"	3'-1"	4'-8"	6'-3"	7'-10"	9'-6"	11'-1"	12'-8"
		36'	1'-0"	1'-5"	3'-2"	4'-11"	6'-10"	8'-10"	10'-11"	4'-4"	5'-11"	7'-6"	9'-1"	10'-9"	12'-4"	13'-11"
		38'	1'-0"	2'-6"	4'-3"	6'-1"	8'-0"	10'-0"	12'-3"	5'-7"	7'-2"	8'-9"	10'-4"	12'-0"	13'-7"	15'-2"

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTANC	E FROM	END SUI	PPORT (fe	eet-inche	s)	DI	STANCE	FROM IN	TERIOR	SUPPOR	T (feet-in	ches)
JOIST	DEPTH	SPAN			le Diame				ĺ				ter (inche			, , , , , , , , , , , , , , , , , , ,
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-7"	-	-	-	-
		10'	1'-0"	1'-0"	1'-8"	-	-	-	-	1'-0"	1'-0"	2'-10"	-	-	-	-
		12'	1'-0"	1'-0"	2'-11"	-	-	-	-	1'-0"	2'-1"	4'-1"	-	-	-	-
	91/2"	14'	1'-0"	1'-8"	4'-2"	-	-	-	-	1'-4"	3'-4"	5'-4"	-	-	-	-
		16'	1'-0"	2'-10"	5'-5"	-	-	-	-	2'-7"	4'-7"	6'-7"	-	-	-	-
		18'	1'-8"	4'-0"	6'-9"	-	-	-	-	3'-10"	5'-10"	7'-11"	-	-	-	-
		20'	2'-9"	5'-3"	8'-1"	-	-	-	-	5'-1"	7'-1"	9'-4"	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-6"	-	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-7"	-	-	-	1'-0"	1'-0"	1'-0"	2'-9"	-	-	-
		12'	1'-0"	1'-0"	1'-0"	2'-9"	-	-	-	1'-0"	1'-0"	2'-1"	4'-0"	-	-	-
		14'	1'-0"	1'-0"	1'-8"	4'-0"	-	-	-	1'-0"	1'-6"	3'-4"	5'-3"	-	-	-
	11 ⁷ / ₈ " -	16'	1'-0"	1'-0"	2'-10"	5'-3"	-	-	-	1'-0"	2'-9"	4'-7"	6'-6"	-	-	-
		18'	1'-0"	1'-10"	4'-0"	6'-7"	-	-	-	2'-2"	4'-0"	5'-10"	7'-9"	-	-	-
		20'	1'-0"	3'-0"	5'-3"	7'-11"	-	-	-	3'-5"	5'-3"	7'-1"	9'-2"	-	-	-
		22'	2'-0"	4'-1"	6'-6"	9'-3"	-	-	-	4'-8"	6'-6"	8'-4"	10'-8"	-	-	-
		24'	3'-1"	5'-4"	7'-9"	10'-8"	-	-	-	5'-11"	7'-9"	9'-7"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	-	-
_		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	-	-
LPI 450		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	-	-	1'-0"	1'-0"	1'-0"	2'-3"	4'-0"	-	-
<u> </u>		14'	1'-0"	1'-0"	1'-0"	1'-11"	4'-1"	-	-	1'-0"	1'-0"	1'-9"	3'-6"	5'-3"	-	-
_		16'	1'-0"	1'-0"	1'-0"	3'-0"	5'-4"	-	-	1'-0"	1'-3"	3'-0"	4'-9"	6'-6"	-	-
	14"	18'	1'-0"	1'-0"	2'-1"	4'-3"	6'-8"	-	-	1'-0"	2'-6"	4'-3"	6'-0"	7'-10"	-	-
	14	20'	1'-0"	1'-3"	3'-3"	5'-5"	8'-0"	-	-	2'-0"	3'-9"	5'-6"	7'-3"	9'-3"	-	-
		22'	1'-0"	2'-4"	4'-5"	6'-9"	9'-5"	-	-	3'-3"	5'-0"	6'-9"	8'-6"	10'-9"	-	-
		24'	1'-6"	3'-6"	5'-7"	8'-0"	10'-9"	-	-	4'-6"	6'-3"	8'-0"	9'-9"	-	-	-
		26'	2'-7"	4'-7"	6'-10"	9'-4"	12'-2"	-	-	5'-9"	7'-6"	9'-3"	11'-0"	-	-	-
		28'	3'-8"	5'-10"	8'-1"	10'-8"	13'-7"	-	-	7'-0"	8'-9"	10'-6"	12'-5"	-	-	-
		30'	4'-10"	7'-0"	9'-4"	12'-0"	15'-0"	-	-	8'-3"	10'-0"	11'-9"	13'-11"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	2'-11"	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	4'-2"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	4'-3"	-	1'-0"	1'-0"	1'-0"	2'-0"	3'-8"	5'-5"	-
		16'	1'-0"	1'-0"	1'-0"	1'-3"	3'-3"	5'-6"	-	1'-0"	1'-0"	1'-6"	3'-3"	4'-11"	6'-8"	-
	16"	18'	1'-0"	1'-0"	1'-0"	2'-4"	4'-5"	6'-10"	-	1'-0"	1'-1"	2'-9"	4'-6"	6'-2"	8'-0"	-
		20'	1'-0"	1'-0"	1'-7"	3'-6"	5'-8"	8'-2"	-	1'-0"	2'-4"	4'-0"	5'-9"	7'-5"	9'-6"	-
		22'	1'-0"	1'-0"	2'-8"	4'-8"	7'-0"	9'-7"	-	1'-10"	3'-7"	5'-3"	7'-0"	8'-8"	10'-11"	-
		24'	1'-0"	1'-11"	3'-10"	5'-11"	8'-3"	10'-11"	-	3'-1"	4'-10"	6'-6"	8'-3"	9'-11"	-	-
		26'	1'-1"	3'-0"	5'-0"	7'-2"	9'-7"	12'-4"	-	4'-4"	6'-1"	7'-9"	9'-6"	11'-3"	-	-
		28'	2'-2"	4'-1"	6'-2"	8'-5"	10'-11"	13'-9"	-	5'-7"	7'-4"	9'-0"	10'-9"	12'-8"	-	-
		30'	3'-3"	5'-3"	7'-4"	9'-8"	12'-3"	-	-	6'-10"	8'-7"	10'-3"	12'-0"	14'-2"	-	-

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTANO	CE FROM	END SU	PPORT (fe	et-inche	s)	DI	STANCE	FROM IN	TERIOR	SUPPOR	T (feet-in	ches)
JOIST	DEPTH	SPAN		Н	ole Diame	ter (inch	es)		ĺ		Но	ole Diame	ter (inch	es)	•	
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	Obround	2"	4"	6"	8"	10"	12"	Obround
		6'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	-	-	-	-	1'-0"	1'-0"	1'-3"	-	-	-	-
		10'	1'-0"	1'-0"	1'-4"	-	-	-	-	1'-0"	1'-0"	2'-6"	-	-	-	-
		12'	1'-0"	1'-0"	2'-6"	-	-	-	-	1'-0"	1'-7"	3'-9"	-	-	-	-
	91/2"	14'	1'-0"	1'-1"	3'-9"	-	-	-	-	1'-0"	2'-10"	5'-0"	-	-	-	-
		16'	1'-0"	2'-3"	5'-0"	-	-	-	-	1'-11"	4'-1"	6'-3"	-	-	-	-
		18'	1'-0"	3'-5"	6'-3"	-	-	-	-	3'-2"	5'-4"	7'-6"	-	-	-	-
		20'	2'-0"	4'-7"	7'-7"	-	-	-	-	4'-5"	6'-7"	8'-11"	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	1'-2"	-	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-2"	-	-	-	1'-0"	1'-0"	1'-0"	2'-5"	-	-	-
		12'	1'-0"	1'-0"	1'-0"	2'-4"	-	-	-	1'-0"	1'-0"	1'-7"	3'-8"	-	-	-
	11 ⁷ /8"	14'	1'-0"	1'-0"	1'-2"	3'-7"	-	-	-	1'-0"	1'-0"	2'-10"	4'-11"	-	-	-
	11'/8" -	16'	1'-0"	1'-0"	2'-3"	4'-10"	-	-	-	1'-0"	2'-1"	4'-1"	6'-2"	-	-	-
		18'	1'-0"	1'-1"	3'-5"	6'-1"	-	-	-	1'-4"	3'-4"	5'-4"	7'-5"	-	-	-
		20'	1'-0"	2'-2"	4'-7"	7'-5"	-	-	-	2'-7"	4'-7"	6'-7"	8'-8"	-	-	-
		22'	1'-1"	3'-4"	5'-10"	8'-9"	-	-	-	3'-10"	5'-10"	7'-10"	10'-2"	-	-	-
		24'	2'-2"	4'-5"	7'-1"	10'-1"	-	-	-	5'-1"	7'-1"	9'-1"	11'-7"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	-	-
_		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	-	-
LPI 530		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	-	-	1'-0"	1'-0"	1'-0"	1'-9"	3'-8"	-	-
<u> </u>		14'	1'-0"	1'-0"	1'-0"	1'-3"	3'-7"	-	-	1'-0"	1'-0"	1'-1"	3'-0"	4'-11"	-	-
_		16'	1'-0"	1'-0"	1'-0"	2'-5"	4'-10"	-	-	1'-0"	1'-0"	2'-4"	4'-3"	6'-2"	-	-
	14"	18'	1'-0"	1'-0"	1'-4"	3'-7"	6'-2"	-	-	1'-0"	1'-7"	3'-7"	5'-6"	7'-5"	1	-
	14	20'	1'-0"	1'-0"	2'-5"	4'-9"	7'-6"	-	-	1'-0"	2'-10"	4'-10"	6'-9"	8'-9"	-	-
		22'	1'-0"	1'-5"	3'-7"	6'-0"	8'-10"	-	-	2'-2"	4'-1"	6'-1"	8'-0"	10'-3"	-	-
		24'	1'-0"	2'-6"	4'-9"	7'-3"	10'-2"	-	-	3'-5"	5'-4"	7'-4"	9'-3"	11'-8"	-	-
		26'	1'-5"	3'-7"	5'-11"	8'-6"	11'-7"	-	-	4'-8"	6'-7"	8'-7"	10'-6"	-	-	-
		28'	2'-6"	4'-9"	7'-2"	9'-10"	12'-11"	-	-	5'-11"	7'-10"	9'-10"	11'-9"	-	-	-
		30'	3'-7"	5'-11"	8'-5"	11'-2"	14'-4"	-	-	7'-2"	9'-1"	11'-1"	13'-1"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	3'-10"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-9"	-	1'-0"	1'-0"	1'-0"	1'-3"	3'-2"	5'-1"	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	2'-7"	5'-0"	-	1'-0"	1'-0"	1'-0"	2'-6"	4'-5"	6'-4"	-
	16"	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"	-
		20'	1'-0"	1'-0"	1'-0"	2'-8"	5'-0"	7'-8"	-	1'-0"	1'-3"	3'-2"	5'-0"	6'-11"	8'-11"	-
		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"	-
		24'	1'-0"	1'-0"	2'-10"	5'-0"	7'-6"	10'-4"	-	1'-11"	3'-9"	5'-8"	7'-6"	9'-5"	11'-10"	-
		26'	1'-0"	1'-10"	3'-11"	6'-3"	8'-10"	11'-9"	-	3'-2"	5'-0"	6'-11"	8'-9"	10'-8"	-	-
		28'	1'-0"	2'-11"	5'-1"	7'-6"	10'-1"	13'-2"	-	4'-5"	6'-3"	8'-2"	10'-0"	11'-11"	-	-
		30'	1'-11"	4'-0"	6'-3"	8'-9"	11'-5"	14'-7"	-	5'-8"	7'-6"	9'-5"	11'-3"	13'-4"	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

¹The hole locations listed above are valid for joists supporting only uniform loads. The total uniform load must not exceed 130 plf (e.g., 40 psf Live Load and a 25 psf Dead Load, spaced up to 24 inches o.c.). The uniform Dead Load must be at least 10 plf.

²Hole location is measured from the inside face of the nearest support to the center of a circular hole or to the center of radius of the nearest semi-circular end of an obround hole.

³Obround holes are not allowed for the LPI 26, LPI 450 and LPI 530 I-Joists.

⁴Maximum hole diameter for circular holes is the Joist Depth less 4 inches, except the maximum hole diameter is 6 inches for 9¹/₂-inch-deep joists, and 8 inches for 11⁷/₈-inch-deep joists.

⁵Holes cannot be located in the span where designated "-", without further analysis by a design professional (see note 7 below).

⁶Clear 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.

⁷Larger holes, greater uniform loads or nonuniform loads, and closer proximity to supports and other holes may be possible with further analysis (See Section 4.4 and the web hole shear equations listed in Table 10).

		0	l	DISTAN	ICE ED	OM END	SLIDBUI	PT (foot-	inches)		DI	STANCI	E EROM	INTERIC	OR SUPP	OPT (fo	et-inche))
JOIST	JOIST DEPTH	CLEAR SPAN	M			mensior				e)					n: Depth	•		
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
	. ,	6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-7"	-	-	1'-0"	1'-0"	1'-3"	1'-6"	1'-10"	2'-2"	-	-
		8'	1'-0"	1'-0"	1'-7"	2'-0"	2'-5"	2'-11"	_	_	1'-0"	1'-3"	2'-6"	2'-9"	3'-1"	3'-5"	_	_
		10'	1'-0"	1'-4"	2'-10"	3'-3"	3'-9"	4'-3"	_	_	1'-3"	2'-6"	3'-9"	4'-0"	4'-5"	-	_	_
		12'	1'-1"	2'-6"	4'-1"	4'-7"	5'-1"	-	_	_	2'-6"	3'-9"	5'-0"	5'-4"	-	-	_	_
	91/2"	14'	2'-2"	3'-8"	5'-5"	5'-11"	6'-6"	-	-	-	3'-9"	5'-0"	6'-4"	-	-	-	-	-
		16'	3'-4"	5'-0"	6'-10"	7'-4"	-	-	-	-	5'-0"	6'-3"	-	-	-	-	-	-
		18'	4'-7"	6'-3"	8'-2"	-	-	-	-	-	6'-3"	7'-6"	-	-	-	-	-	-
		20'	5'-10"	7'-7"	9'-7"	-	-	-	-	-	7'-6"	8'-10"	-	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	-	-	-	1'-0"	1'-0"	1'-0"	1'-8"	2'-0"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	2'-3"	2'-8"	-	-	-	1'-0"	1'-0"	1'-11"	2'-11"	3'-3"	-	-	-
		10'	1'-0"	1'-0"	2'-2"	3'-6"	4'-0"	-	-	-	1'-1"	2'-2"	3'-2"	4'-2"	-	-	-	-
		12'	1'-0"	2'-1"	3'-4"	4'-10"	5'-5"	-	-	-	2'-4"	3'-5"	4'-5"	5'-8"	-	-	-	-
	11 ⁷ / ₈ "	14'	2'-0"	3'-3"	4'-8"	6'-3"	-	-	-	-	3'-7"	4'-8"	5'-8"	-	-	-	-	-
	11'/8"	16'	3'-2"	4'-6"	5'-11"	7'-8"	-	-	-	-	4'-10"	5'-11"	7'-0"	-	-	-	-	-
		18'	4'-4"	5'-9"	7'-3"	-	-	-	-	-	6'-1"	7'-2"	8'-5"	-	-	-	-	-
		20'	5'-7"	7'-0"	8'-8"	-	-	-	-	-	7'-4"	8'-5"	-	-	-	-	-	-
		22'	6'-10"	8'-4"	10'-1"	-	-	-	-	-	8'-7"	9'-9"	-	-	-	-	-	-
		24'	8'-2"	9'-8"	11'-5"	-	-	-	-	-	9'-10"	11'-3"	-	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	2'-1"	2'-9"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	2'-10"	3'-4"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	3'-5"	4'-1"	-	1'-0"	1'-0"	1'-0"	2'-1"	3'-8"	4'-1"	-	-
LPI 18		12'	1'-0"	1'-0"	1'-0"	2'-0"	4'-0"	4'-9"	-	-	1'-0"	1'-0"	1'-10"	3'-4"	4'-11"	5'-6"	-	-
₽		14'	1'-0"	1'-0"	1'-4"	3'-2"	5'-4"	6'-1"	-	-	1'-0"	1'-6"	3'-1"	4'-7"	6'-3"	-	-	-
		16'	1'-0"	1'-0"	2'-6"	4'-5"	6'-8"	7'-6"	-	-	1'-2"	2'-9"	4'-4"	5'-10"	-	-	-	-
	14"	18'	1'-0"	1'-10"	3'-8"	5'-8"	8'-1"	-	-	-	2'-5"	4'-0"	5'-7"	7'-1"	-	-	-	-
		20'	1'-3"	2'-11"	4'-10"	7'-0"	9'-5"	-	-	-	3'-8"	5'-3"	6'-10"	8'-4"	-	-	-	-
		22'	2'-4"	4'-1"	6'-1"	8'-3"	-	-	-	-	4'-11"	6'-6"	8'-1"	9'-9"	-	-	-	-
		24'	3'-5"	5'-3"	7'-4"	9'-8"	-	-	-	-	6'-2"	7'-9"	9'-4"	11'-2"	-	-	-	-
		26'	4'-7"	6'-6"	8'-7"	11'-0"	-	-	-	-	7'-5"	9'-0"	10'-7"	12'-7"	-	-	-	-
		28'	5'-9"	7'-9"	9'-11"	12'-4"	-	-	-	-	8'-8"	10'-3"	11'-10"	-	-	-	-	-
		30'	6'-11"	9'-0"	11'-3"	13'-9"	-	-	-	-	9'-11"	11'-6"	13'-2"	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-2"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	3'-10"	-	-	1'-0"	1'-0"	1'-0"	1'-7"	3'-0"	4'-5"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-4"	3'-1" 4'-4"	5'-2"	-	-	1'-0"	1'-0"	1'-5"	2'-10"	4'-3"	-	-	-
		14'	1'-0"	1'-0"	1'-0" 2'-0"	2'-6" 3'-8"	5'-8"	-	-	-	1'-0" 1'-1"	1'-3"	2'-8" 3'-11"	4'-1" 5'-4"	5'-6" 6'-9"	-	-	-
		16'	1'-0"	1'-0"				-	-	-		2'-6"		_		-	-	-
	16"	18'	1'-0" 1'-1"	1'-6"	3'-2" 4'-4"	4'-11" 6'-2"	7'-0" 8'-4"	-	-	-	2'-4" 3'-7"	3'-9"	5'-2" 6'-5"	6'-7" 7'-10"	8'-1" 9'-7"	-	-	-
		20'		2'-8"				-	-	1		5'-0"		9'-1"		-	-	-
		22' 24'	2'-2" 3'-3"	3'-9"	5'-6" 6'-9"	7'-6" 8'-10"	9'-8" 11'-1"	-	-	-	4'-10" 6'-1"	6'-3" 7'-6"	7'-8" 8'-11"	10'-4"	-	-	-	-
		26'	4'-5"	4'-11" 6'-2"	6'-9" 8'-1"	10'-2"	11'-1"			-	6'-1" 7'-4"	8'-9"	10'-2"	10'-4"				- -
							12'-6"	-	-						-	-	-	-
		28' 30'	5'-7" 6'-9"	7'-5"	9'-4"	11'-6"	-	-		-	8'-7"	10'-0"	11'-5"	13'-3"		-		-
		30	6-9	8'-8"	10'-8"	12'-10"	-	-	-	-	9'-10"	11'-3"	12'-8"	-	-	-	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	IOIOT	01.545		DISTA	NCE FRO	M END	SUPPO	RT (feet-	inches)		DI	STANC	FROM	INTERIO	OR SUPP	ORT (fe	et-inche	181
JOIST	JOIST DEPTH	CLEAR SPAN	М		Hole Di			•		s)					n: Depth	•		
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		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"	-	-
		8'	1'-0"	1'-0"	1'-3"	1'-8"	2'-2"	2'-8"	-	_	1'-0"	1'-0"	2'-2"	2'-6"	2'-11"	3'-3"	-	_
		10'	1'-0"	1'-0"	2'-6"	2'-11"	3'-5"	3'-11"	-	-	1'-0"	2'-1"	3'-5"	3'-9"	4'-2"	-	-	-
		12'	1'-0"	2'-0"	3'-9"	4'-3"	4'-9"	5'-4"	-	-	2'-0"	3'-4"	4'-8"	5'-0"	5'-6"	-	-	-
	91/2"	14'	1'-7"	3'-2"	5'-0"	5'-7"	6'-1"	-	-	-	3'-3"	4'-7"	5'-11"	6'-5"	-	-	-	-
		16'	2'-9"	4'-5"	6'-4"	6'-11"	7'-6"	-	-	-	4'-6"	5'-10"	7'-5"	-	-	-	-	-
		18'	3'-11"	5'-8"	7'-9"	8'-4"	-	-	-	-	5'-9"	7'-1"	-	-	-	-	-	-
		20'	5'-2"	7'-0"	9'-1"	-	-	-	-	-	7'-0"	8'-4"	-	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-8"	-	-	1'-0"	1'-0"	1'-0"	1'-6"	1'-10"	2'-2"	-	-
		8'	1'-0"	1'-0"	1'-0"	2'-0"	2'-5"	2'-11"	-	-	1'-0"	1'-0"	1'-7"	2'-9"	3'-1"	3'-5"	-	-
		10'	1'-0"	1'-0"	1'-9"	3'-3"	3'-9"	4'-3"	-	-	1'-0"	1'-9"	2'-10"	4'-0"	4'-5"	-	-	-
		12'	1'-0"	1'-7"	2'-11"	4'-6"	5'-1"	-	-	-	1'-10"	3'-0"	4'-1"	5'-4"	-	-	-	-
lus	11 ⁷ / ₈ "	14'	1'-5"	2'-9"	4'-2"	5'-11"	6'-6"	-	-	-	3'-1"	4'-3"	5'-4"	-	-	-	-	-
52Plus	11./8	16'	2'-6"	3'-11"	5'-6"	7'-3"	-	-	-	-	4'-4"	5'-6"	6'-7"	-	-	-	-	-
i i		18'	3'-8"	5'-2"	6'-9"	8'-8"	-	-	-	-	5'-7"	6'-9"	7'-11"	-	-	-	-	-
, L		20'	4'-11"	6'-5"	8'-2"	-	-	-	-	-	6'-10"	8'-0"	9'-5"	-	-	-	-	-
l ši		22'	6'-1"	7'-9"	9'-6"	-	-	-	-	-	8'-1"	9'-3"	-	-	-	-	-	-
42Plus, LPI		24'	7'-5"	9'-1"	10'-11"	-	-	-	-	-	9'-4"	10'-7"	-	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-10"	2'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	2'-8"	3'-2"	-
32Plus, LPI		10'	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	3'-1"	3'-10"	-	1'-0"	1'-0"	1'-0"	1'-8"	3'-4"	3'-11"	-	-
- Plu		12'	1'-0"	1'-0"	1'-0"	1'-6"	3'-8"	4'-5"	5'-2"	-	1'-0"	1'-0"	1'-3"	2'-11"	4'-7"	5'-2"	-	-
32		14'	1'-0"	1'-0"	1'-0"	2'-8"	4'-11"	5'-9"	-	-	1'-0"	1'-0"	2'-6"	4'-2"	5'-10"	-	-	-
F		16'	1'-0"	1'-0"	1'-10"	3'-10"	6'-3"	7'-1"	-	-	1'-0"	2'-0"	3'-9"	5'-5"	7'-3"	-	-	-
4 4	14"	18'	1'-0"	1'-0"	2'-11"	5'-1"	7'-7"	8'-6"	-	-	1'-7"	3'-3"	5'-0"	6'-8"	-	-	-	-
20x4,		20'	1'-0"	2'-1"	4'-1"	6'-4"	9'-0"	-	-	-	2'-10"	4'-6"	6'-3"	7'-11"	-	-	-	-
5		22'	1'-4"	3'-3"	5'-4"	7'-8"	10'-5"	-	-	-	4'-1"	5'-9"	7'-6"	9'-2"	-	-	-	-
<u>s</u>		24'	2'-5"	4'-5"	6'-7"	9'-0"	-	-	-	-	5'-4"	7'-0"	8'-9"	10'-6"	-	-	-	-
<u> </u>		26'	3'-6"	5'-7"	7'-10"	10'-4"	-	-	-	-	6'-7"	8'-3"	10'-0"	12'-0"	-	-	-	-
LPI 20Plus,		28'	4'-8"	6'-9"	9'-1"	11'-8"	-	-	-	-	7'-10"	9'-6"	11'-3"	13'-5"	-	-	-	-
_ ₽		30'	5'-10"	8'-0"	10'-5"	13'-0"	-	-	-	-	9'-1"	10'-9"	12'-6"	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	3'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	2'-11"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-6"	4'-4"	-	1'-0"	1'-0"	1'-0"	1'-1"	2'-8"	4'-2"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	4'-10"	-	-	1'-0"	1'-0"	1'-0"	2'-4"	3'-11"	-	-	-
		14'	1'-0"	1'-0"	1'-0"	1'-11"	3'-11"	6'-3"	-	-	1'-0"	1'-0"	2'-0"	3'-7"	5'-2"	-	-	-
		16'	1'-0"	1'-0"	1'-4"	3'-1"	5'-2"	-	-	-	1'-0"	1'-9"	3'-3"	4'-10"	6'-5"	-	-	-
	16"	18'	1'-0"	1'-0"	2'-5"	4'-4"	6'-5"	-	-	-	1'-5"	3'-0"	4'-6"	6'-1"	7'-8"	-	-	-
		20'	1'-0"	1'-9"	3'-7"	5'-6"	7'-9"	-	-	-	2'-8"	4'-3"	5'-9"	7'-4"	9'-1"	-	-	-
		22'	1'-2"	2'-11"	4'-9"	6'-10"	9'-2"	-	-	-	3'-11"	5'-6"	7'-0"	8'-7"	10'-6"	-	-	-
		24'	2'-3"	4'-0"	6'-0"	8'-1"	10'-6"	-	-	-	5'-2"	6'-9"	8'-3"	9'-10"	-	-	-	-
		26'	3'-4"	5'-2"	7'-2"	9'-5"	11'-11"	-	-	-	6'-5"	8'-0"	9'-6"	11'-1"	-	-	-	-
		28'	4'-6"	6'-5"	8'-5"	10'-9"	13'-4"	-	-	-	7'-8"	9'-3"	10'-9"	12'-6"	-	-	-	-
		30'	5'-8"	7'-7"	9'-9"	12'-1"	-	-	-	-	8'-11"	10'-6"	12'-0"	14'-0"	-	-	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTAN	ICE FRO	M END	SUPPOI	RT (feet-	inches)		DI	STANCE	FROM	INTERIO	OR SUPE	ORT (fe	et-inche	s)
JOIST	DEPTH	SPAN	М						h (inche:	s)						or Widtl		
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	5'-1"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-4"	-	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-2"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	4'-7"	-	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	4'-4"	-	-	1'-0"	1'-0"	1'-0"	1'-3"	3'-6"	5'-10"	-	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-8"	-	-	1'-0"	1'-0"	1'-0"	2'-6"	4'-9"	7'-1"	-	-
		20'	1'-0"	1'-0"	1'-0"	1'-3"	3'-11"	6'-11"	-	-	1'-0"	1'-0"	1'-6"	3'-9"	6'-0"	8'-4"	-	-
		22'	1'-0"	1'-0"	1'-0"	2'-4"	5'-1"	8'-3"	-	-	1'-0"	1'-0"	2'-9"	5'-0"	7'-3"	9'-8"	-	-
	18"	24'	1'-0"	1'-0"	1'-0"	3'-6"	6'-4"	9'-7"	-	-	1'-0"	1'-8"	4'-0"	6'-3"	8'-6"	11'-1"	-	-
		26'	1'-0"	1'-0"	2'-0"	4'-8"	7'-7"	10'-11"	-	-	1'-0"	2'-11"	5'-3"	7'-6"	9'-9"	-	-	-
		28'	1'-0"	1'-0"	3'-2"	5'-10"	8'-10"	12'-4"	-	-	1'-11"	4'-2"	6'-6"	8'-9"	11'-0"	-	-	-
		30'	1'-0"	1'-9"	4'-3"	7'-0"	10'-1"	13'-8"	-	-	3'-2"	5'-5"	7'-9"	10'-0"	12'-3"	-	-	-
		32'	1'-0"	2'-10"	5'-5"	8'-3"	11'-5"	15'-1"	-	-	4'-5"	6'-8"	9'-0"	11'-3"	13'-6"	-	-	-
		34'	1'-5"	3'-11"	6'-7"	9'-6"	12'-9"	16'-6"	-	-	5'-8"	7'-11"	10'-3"	12'-6"	14'-11"	-	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-7"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	4'-7"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	4'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	3'-8"	5'-10"	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	6'-2"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	4'-11"	7'-2"	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	4'-5"	7'-6"	-	1'-0"	1'-0"	1'-0"	1'-11"	4'-1"	6'-2"	-	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-8"	8'-11"	-	1'-0"	1'-0"	1'-0"	3'-2"	5'-4"	7'-5"	-	-
	20"	22'	1'-0"	1'-0"	1'-0"	1'-9"	4'-2"	6'-11"	10'-3"	-	1'-0"	1'-0"	2'-3"	4'-5"	6'-7"	8'-8"	-	-
	20	24'	1'-0"	1'-0"	1'-0"	2'-10"	5'-4"	8'-3"	-	-	1'-0"	1'-5"	3'-6"	5'-8"	7'-10"	9'-11"	-	-
		26'	1'-0"	1'-0"	1'-7"	3'-11"	6'-7"	9'-7"	-	-	1'-0"	2'-8"	4'-9"	6'-11"	9'-1"	11'-3"	-	-
S		28'	1'-0"	1'-0"	2'-8"	5'-1"	7'-10"	10'-11"	-	-	1'-9"	3'-11"	6'-0"	8'-2"	10'-4"	12'-8"	-	-
LPI 42Plus, LPI 52Plus		30'	1'-0"	1'-5"	3'-9"	6'-3"	9'-1"	12'-3"	-	1	3'-0"	5'-2"	7'-3"	9'-5"	11'-7"	14'-2"	-	ı
1 22		32'	1'-0"	2'-6"	4'-10"	7'-6"	10'-4"	13'-7"	-	1	4'-3"	6'-5"	8'-6"	10'-8"	12'-10"	-	-	1
4		34'	1'-3"	3'-7"	6'-0"	8'-8"	11'-8"	15'-0"	-	-	5'-6"	7'-8"	9'-9"	11'-11"	14'-1"	-	-	-
ns,		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-11"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	4'-2"	6'-3"	-
2PI		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	3'-6"	6'-2"	-	1'-0"	1'-0"	1'-0"	1'-5"	3'-5"	5'-5"	7'-6"	-
4		20'	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-9"	7'-6"	-	1'-0"	1'-0"	1'-0"	2'-8"	4'-8"	6'-8"	8'-10"	-
5		22'	1'-0"	1'-0"	1'-0"	1'-2"	3'-5"	5'-11"	8'-10"	-	1'-0"	1'-0"	1'-11"	3'-11"	5'-11"	7'-11"	10'-3"	-
		24'	1'-0"	1'-0"	1'-0"	2'-3"	4'-7"	7'-2"	10'-3"	-	1'-0"	1'-2"	3'-2"	5'-2"	7'-2"	9'-2"	-	-
	22"	26'	1'-0"	1'-0"	1'-2"	3'-5"	5'-9"	8'-6"	11'-7"	-	1'-0"	2'-5"	4'-5"	6'-5"	8'-5"	10'-5"	-	-
		28'	1'-0"	1'-0"	2'-3"	4'-6"	7'-0"	9'-9"	13'-0"	-	1'-8"	3'-8"	5'-8"	7'-8"	9'-8"	11'-8"	-	-
		30'	1'-0"	1'-2"	3'-4"	5'-8"	8'-3"	11'-1"	14'-5"	-	2'-11"	4'-11"	6'-11"	8'-11"	10'-11"	13'-1"	-	-
		32'	1'-0"	2'-3"	4'-5"	6'-10"	9'-6"	12'-5"	-	-	4'-2"	6'-2"	8'-2"	10'-2"	12'-2"	14'-6"	-	-
		34'	1'-2"	3'-4"	5'-7"	8'-1"	10'-9"	13'-9"	-	-	5'-5"	7'-5"	9'-5"	11'-5"	13'-5"	15'-11"	-	-
		36'	2'-2"	4'-5"	6'-9"	9'-3"	12'-1"	15'-2"	-	-	6'-8"	8'-8"	10'-8"	12'-8"	14'-8"	17'-5"	-	-
		38'	3'-3"	5'-6"	7'-11"	10'-6"	13'-4"	16'-6"	-	-	7'-11"	9'-11"	11'-11"	13'-11"	15'-11"	-	-	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	3'-11"	6'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	3'-7"	5'-6"	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-2"	8'-1"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	4'-10"	6'-9"	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-11"	6'-6"	-	1'-0"	1'-0"	1'-0"	2'-3"	4'-2"	6'-1"	8'-0"	-
		22'	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	5'-2"	7'-9"	-	1'-0"	1'-0"	1'-7"	3'-6"	5'-5"	7'-4"	9'-3"	-
		24'	1'-0"	1'-0"	1'-0"	1'-10"	4'-0"	6'-5"	9'-1"	-	1'-0"	1'-0"	2'-10"	4'-9"	6'-8"	8'-7"	10'-8"	-
	24"	26'	1'-0"	1'-0"	1'-0"	2'-11"	5'-2"	7'-8"	10'-5"	-	1'-0"	2'-2"	4'-1"	6'-0"	7'-11"	9'-10"	12'-1"	-
		28'	1'-0"	1'-0"	1'-11"	4'-0"	6'-4"	8'-11"	11'-10"	-	1'-7"	3'-5"	5'-4"	7'-3"	9'-2"	11'-1"	-	-
		30'	1'-0"	1'-0"	3'-0"	5'-2"	7'-7"	10'-2"	13'-2"	-	2'-10"	4'-8"	6'-7"	8'-6"	10'-5"	12'-4"	-	-
		32'	1'-0"	2'-0"	4'-1"	6'-4"	8'-10"	11'-6"	14'-7"	-	4'-1"	5'-11"	7'-10"	9'-9"	11'-8"	13'-7"	-	-
		34'	1'-1"	3'-1"	5'-3"	7'-7"	10'-1"	12'-10"	16'-0"	-	5'-4"	7'-2"	9'-1"	11'-0"	12'-11"	15'-0"	-	-
		36'	2'-1"	4'-2"	6'-5"	8'-9"	11'-4"	14'-2"	17'-5"	-	6'-7"	8'-5"	10'-4"	12'-3"	14'-2"	16'-6"	-	-
		38'	3'-2"	5'-3"	7'-7"	10'-0"	12'-7"	15'-6"	-	-	7'-10"	9'-8"	11'-7"	13'-6"	15'-5"	17'-11"	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	LOIOT	01.545		DISTAN	NCE FRO	M END	SUPPOI	RT (feet-	inches)		DI	STANCI	FROM	INTERIO	OR SUPP	PORT (fe	et-inche	ie)
JOIST	JOIST DEPTH	CLEAR SPAN	м		Hole Di					s)					n: Depth			
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		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"	-	-
		8'	1'-0"	1'-0"	1'-3"	1'-8"	2'-2"	2'-8"	_	_	1'-0"	1'-0"	2'-2"	2'-6"	2'-11"	3'-3"	-	-
		10'	1'-0"	1'-0"	2'-6"	2'-11"	3'-5"	3'-11"	-	-	1'-0"	2'-1"	3'-5"	3'-9"	4'-2"	-	-	-
	91/2"	12'	1'-0"	2'-0"	3'-9"	4'-3"	4'-9"	5'-4"	-	-	2'-0"	3'-4"	4'-8"	5'-0"	5'-6"	-	-	-
		14'	1'-7"	3'-2"	5'-0"	5'-7"	6'-1"	-	-	-	3'-3"	4'-7"	5'-11"	6'-5"	-	-	-	-
		16'	2'-9"	4'-5"	6'-4"	6'-11"	7'-6"	-	_	_	4'-6"	5'-10"	7'-5"	-	-	-	-	-
		18'	3'-11"	5'-8"	7'-9"	8'-4"	-	-	-	-	5'-9"	7'-1"	-	-	-	-	-	-
60		20'	5'-2"	7'-0"	9'-1"	-	-	-	-	-	7'-0"	8'-4"	-	-	-	-	-	-
LPI 26		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-8"	-	-	1'-0"	1'-0"	1'-0"	1'-6"	1'-10"	2'-2"	-	-
5		8'	1'-0"	1'-0"	1'-0"	2'-0"	2'-5"	2'-11"	-	-	1'-0"	1'-0"	1'-7"	2'-9"	3'-1"	3'-5"	-	-
		10'	1'-0"	1'-0"	1'-9"	3'-3"	3'-9"	4'-3"	-	-	1'-0"	1'-9"	2'-10"	4'-0"	4'-5"	-	-	-
		12'	1'-0"	1'-7"	2'-11"	4'-6"	5'-1"	-	_	_	1'-10"	3'-0"	4'-1"	5'-4"	-	-	-	-
	11 ⁷ /8"	14'	1'-5"	2'-9"	4'-2"	5'-11"	6'-6"	-	-	-	3'-1"	4'-3"	5'-4"	-	-	-	-	-
		16'	2'-6"	3'-11"	5'-6"	7'-3"	-	-	-	-	4'-4"	5'-6"	6'-7"	-	-	-	-	-
		18'	3'-8"	5'-2"	6'-9"	8'-8"	-	-	_	-	5'-7"	6'-9"	7'-11"	-	-	-	_	_
		20'	4'-11"	6'-5"	8'-2"	-	-	-	-	-	6'-10"	8'-0"	9'-5"	-	-	-	-	-
		22'	6'-1"	7'-9"	9'-6"	_	_	-	_	_	8'-1"	9'-3"	-	_	-	_	_	_
		24'	7'-5"	9'-1"	10'-11"	-	_	-	-	-	9'-4"	10'-7"	_	_	-	-	-	-
		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"	_	_
		8'	1'-0"	1'-0"	1'-3"	1'-8"	2'-2"	2'-8"	-	-	1'-0"	1'-0"	2'-2"	2'-6"	2'-11"	3'-3"	-	-
		10'	1'-0"	1'-0"	2'-6"	2'-11"	3'-5"	3'-11"	-	-	1'-0"	2'-1"	3'-5"	3'-9"	4'-2"	-	-	-
	91/2"	12'	1'-0"	2'-0"	3'-9"	4'-3"	4'-9"	5'-4"	-	-	2'-0"	3'-4"	4'-8"	5'-0"	5'-6"	-	-	-
		14'	1'-7"	3'-2"	5'-0"	5'-7"	6'-1"	-	-	-	3'-3"	4'-7"	5'-11"	6'-5"	-	-	-	-
		16'	2'-9"	4'-5"	6'-4"	6'-11"	7'-6"	-	-	-	4'-6"	5'-10"	7'-5"	-	-	-	-	-
		18'	3'-11"	5'-8"	7'-9"	8'-4"	-	-	-	-	5'-9"	7'-1"	-	-	-	-	-	-
		20'	5'-2"	7'-0"	9'-1"	-	-	-	-	-	7'-0"	8'-4"	-	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-8"	-	-	1'-0"	1'-0"	1'-0"	1'-6"	1'-10"	2'-2"	-	-
		8'	1'-0"	1'-0"	1'-0"	2'-0"	2'-5"	2'-11"	-	-	1'-0"	1'-0"	1'-7"	2'-9"	3'-1"	3'-5"	-	-
		10'	1'-0"	1'-0"	1'-9"	3'-3"	3'-9"	4'-3"	-	-	1'-0"	1'-9"	2'-10"	4'-0"	4'-5"	-	-	-
		12'	1'-0"	1'-7"	2'-11"	4'-6"	5'-1"	-	-	-	1'-10"	3'-0"	4'-1"	5'-4"	-	-	-	-
	11 ⁷ /8"	14'	1'-5"	2'-9"	4'-2"	5'-11"	6'-6"	-	-	-	3'-1"	4'-3"	5'-4"	-	-	-	-	-
		16'	2'-6"	3'-11"	5'-6"	7'-3"	-	-	-	-	4'-4"	5'-6"	6'-7"	-	-	-	-	-
		18'	3'-8"	5'-2"	6'-9"	8'-8"	-	-	-	-	5'-7"	6'-9"	7'-11"	-	-	-	-	-
		20'	4'-11"	6'-5"	8'-2"	-	-	-	-	-	6'-10"	8'-0"	9'-5"	-	-	-	-	-
		22'	6'-1"	7'-9"	9'-6"	-	-	-	-	-	8'-1"	9'-3"	-	-	-	-	-	-
		24'	7'-5"	9'-1"	10'-11"	-	-	-	-	-	9'-4"	10'-7"	-	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-10"	2'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	2'-8"	3'-2"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	3'-1"	3'-10"	-	1'-0"	1'-0"	1'-0"	1'-8"	3'-4"	3'-11"	-	-
30		12'	1'-0"	1'-0"	1'-0"	1'-6"	3'-8"	4'-5"	5'-2"	-	1'-0"	1'-0"	1'-3"	2'-11"	4'-7"	5'-2"	-	-
LPI 30		14'	1'-0"	1'-0"	1'-0"	2'-8"	4'-11"	5'-9"	-	-	1'-0"	1'-0"	2'-6"	4'-2"	5'-10"	-	-	-
		16'	1'-0"	1'-0"	1'-10"	3'-10"	6'-3"	7'-1"	-	-	1'-0"	2'-0"	3'-9"	5'-5"	7'-3"	-	-	-
	14"	18'	1'-0"	1'-0"	2'-11"	5'-1"	7'-7"	8'-6"	-	-	1'-7"	3'-3"	5'-0"	6'-8"	-	-	-	-
		20'	1'-0"	2'-1"	4'-1"	6'-4"	9'-0"	-	-	-	2'-10"	4'-6"	6'-3"	7'-11"	-	-	-	-
		22'	1'-4"	3'-3"	5'-4"	7'-8"	10'-5"	-	-	-	4'-1"	5'-9"	7'-6"	9'-2"	-	-	-	-
		24'	2'-5"	4'-5"	6'-7"	9'-0"	-	-	-	-	5'-4"	7'-0"	8'-9"	10'-6"	-	-	-	-
		26'	3'-6"	5'-7"	7'-10"	10'-4"	-	-	-	-	6'-7"	8'-3"	10'-0"	12'-0"	-	-	-	-
		28'	4'-8"	6'-9"	9'-1"	11'-8"	-	-	-	-	7'-10"	9'-6"	11'-3"	13'-5"	-	-	-	-
		30'	5'-10"	8'-0"	10'-5"	13'-0"	-	-	-	-	9'-1"	10'-9"	12'-6"	-	-	-	_	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	3'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	2'-11"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-6"	4'-4"	-	1'-0"	1'-0"	1'-0"	1'-1"	2'-8"	4'-2"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	4'-10"	-	-	1'-0"	1'-0"	1'-0"	2'-4"	3'-11"	-	-	-
		14'	1'-0"	1'-0"	1'-0"	1'-11"	3'-11"	6'-3"	-	-	1'-0"	1'-0"	2'-0"	3'-7"	5'-2"	-	-	-
		16'	1'-0"	1'-0"	1'-4"	3'-1"	5'-2"	-	-	-	1'-0"	1'-9"	3'-3"	4'-10"	6'-5"	-	-	-
	40"	18'	1'-0"	1'-0"	2'-5"	4'-4"	6'-5"	-	-	-	1'-5"	3'-0"	4'-6"	6'-1"	7'-8"	-	-	-
	16"	20'	1'-0"	1'-9"	3'-7"	5'-6"	7'-9"	-	-	-	2'-8"	4'-3"	5'-9"	7'-4"	9'-1"	-	-	-
		22'	1'-2"	2'-11"	4'-9"	6'-10"	9'-2"	-	-	-	3'-11"	5'-6"	7'-0"	8'-7"	10'-6"	-	-	-
		24'	2'-3"	4'-0"	6'-0"	8'-1"	10'-6"	-	-	-	5'-2"	6'-9"	8'-3"	9'-10"	-	-	-	-
		26'	3'-4"	5'-2"	7'-2"	9'-5"	11'-11"	-	-	-	6'-5"	8'-0"	9'-6"	11'-1"	-	-	-	-
		28'	4'-6"	6'-5"	8'-5"	10'-9"	13'-4"	-	-	-	7'-8"	9'-3"	10'-9"	12'-6"	-	-	-	-
		30'	5'-8"	7'-7"	9'-9"	12'-1"	-	-	-	-	8'-11"	10'-6"	12'-0"	14'-0"	-	-	-	-
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For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

					Dista	nce from	End Su	pport					Distanc	e from I	nterior S	Support		
Joist Series	Joist Depth	Clear Span		Maxir	num Ho	le Dimer	nsion: D	epth or \	Width			Maxii	num Ho	le Dimer	nsion: D	epth or \	Nidth	
Series	Бериі	Span	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-8"	-	-	1'-0"	1'-0"	1'-0"	1'-6"	1'-10"	2'-2"	-	-
		8'	1'-0"	1'-0"	1'-0"	2'-0"	2'-5"	2'-11"	-	-	1'-0"	1'-0"	1'-7"	2'-9"	3'-1"	3'-5"	-	-
		10'	1'-0"	1'-0"	1'-9"	3'-3"	3'-9"	4'-3"	-	-	1'-0"	1'-9"	2'-10"	4'-0"	4'-5"	-	-	-
		12'	1'-0"	1'-7"	2'-11"	4'-6"	5'-1"	-	-	-	1'-10"	3'-0"	4'-1"	5'-4"	-	-	-	-
	11 ⁷ /8"	14'	1'-5"	2'-9"	4'-2"	5'-11"	6'-6"	-	-	-	3'-1"	4'-3"	5'-4"	-	-	-	-	-
	11 /8	16'	2'-6"	3'-11"	5'-6"	7'-3"	-	-	-	-	4'-4"	5'-6"	6'-7"	-	-	-	-	-
		18'	3'-8"	5'-2"	6'-9"	8'-8"	-	-	-	-	5'-7"	6'-9"	7'-11"	-	-	-	-	-
		20'	4'-11"	6'-5"	8'-2"	-	-	-	-	-	6'-10"	8'-0"	9'-5"	-	-	-	-	-
		22'	6'-1"	7'-9"	9'-6"	-	-	-	-	-	8'-1"	9'-3"	-	-	-	-	-	-
		24'	7'-5"	9'-1"	10'-11"	-	-	-	-	-	9'-4"	10'-7"	-	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-10"	2'-6"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	2'-8"	3'-2"	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	3'-1"	3'-10"	-	1'-0"	1'-0"	1'-0"	1'-8"	3'-4"	3'-11"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-6"	3'-8"	4'-5"	5'-2"	-	1'-0"	1'-0"	1'-3"	2'-11"	4'-7"	5'-2"	-	-
		14'	1'-0"	1'-0"	1'-0"	2'-8"	4'-11"	5'-9"	-	-	1'-0"	1'-0"	2'-6"	4'-2"	5'-10"	-	-	-
ဖ		16'	1'-0"	1'-0"	1'-10"	3'-10"	6'-3"	7'-1"	-	-	1'-0"	2'-0"	3'-9"	5'-5"	7'-3"	-	-	-
1 56	14"	18'	1'-0"	1'-0"	2'-11"	5'-1"	7'-7"	8'-6"	-	-	1'-7"	3'-3"	5'-0"	6'-8"	-	-	-	-
LPI 36, LPI		20'	1'-0"	2'-1"	4'-1"	6'-4"	9'-0"	-	-	-	2'-10"	4'-6"	6'-3"	7'-11"	-	-	-	-
36		22'	1'-4"	3'-3"	5'-4"	7'-8"	10'-5"	-	-	-	4'-1"	5'-9"	7'-6"	9'-2"	-	-	-	-
<u>-</u>		24'	2'-5"	4'-5"	6'-7"	9'-0"	-	-	-	-	5'-4"	7'-0"	8'-9"	10'-6"	-	-	-	-
		26'	3'-6"	5'-7"	7'-10"	10'-4"	-	-	-	-	6'-7"	8'-3"	10'-0"	12'-0"	-	-	-	-
		28'	4'-8"	6'-9"	9'-1"	11'-8"	-	-	-	-	7'-10"	9'-6"	11'-3"	13'-5"	-	-	-	-
		30'	5'-10"	8'-0"	10'-5"	13'-0"	-	-	-	-	9'-1"	10'-9"	12'-6"	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	3'-0"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	2'-11"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-6"	4'-4"	-	1'-0"	1'-0"	1'-0"	1'-1"	2'-8"	4'-2"	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	4'-10"	-	-	1'-0"	1'-0"	1'-0"	2'-4"	3'-11"	-	-	-
		14'	1'-0"	1'-0"	1'-0"	1'-11"	3'-11"	6'-3"	-	-	1'-0"	1'-0"	2'-0"	3'-7"	5'-2"	-	-	-
		16'	1'-0"	1'-0"	1'-4"	3'-1"	5'-2"	-	-	-	1'-0"	1'-9"	3'-3"	4'-10"	6'-5"	-	-	-
	16"	18'	1'-0"	1'-0"	2'-5"	4'-4"	6'-5"	-	-	-	1'-5"	3'-0"	4'-6"	6'-1"	7'-8"	-	-	-
		20'	1'-0"	1'-9"	3'-7"	5'-6"	7'-9"	-	-	-	2'-8"	4'-3"	5'-9"	7'-4"	9'-1"	-	-	-
		22'	1'-2"	2'-11"	4'-9"	6'-10"	9'-2"	-	-	-	3'-11"	5'-6"	7'-0"	8'-7"	10'-6"	-	-	-
		24'	2'-3"	4'-0"	6'-0"	8'-1"	10'-6"	-	-	-	5'-2"	6'-9"	8'-3"	9'-10"	-	-	-	-
		26'	3'-4"	5'-2"	7'-2"	9'-5"	11'-11"	-	-	-	6'-5"	8'-0"	9'-6"	11'-1"	-	-	-	-
		28'	4'-6"	6'-5"	8'-5"	10'-9"	13'-4"	-	-	-	7'-8"	9'-3"	10'-9"	12'-6"	-	-	-	-
		30'	5'-8"	7'-7"	9'-9"	12'-1"	-	-	-	-	8'-11"	10'-6"	12'-0"	14'-0"	-	-	-	-

For **SI:** 1 inch = 25.4 mm, 1 foot = 305 mm.

					Dista	nce from	n End Su	pport					Distanc	e from I	nterior S	Support		
Joist Series	Joist Depth	Clear Span		Maxir	num Ho	le Dimer	nsion: D	epth or \	Width			Maxir	num Ho	le Dimer	nsion: D	epth or \	Width	
Series	Бериі	Span	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	5'-1"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-4"	-	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-2"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	4'-7"	-	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	4'-4"	-	-	1'-0"	1'-0"	1'-0"	1'-3"	3'-6"	5'-10"	-	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-8"	-	-	1'-0"	1'-0"	1'-0"	2'-6"	4'-9"	7'-1"	-	-
		20'	1'-0"	1'-0"	1'-0"	1'-3"	3'-11"	6'-11"	-	-	1'-0"	1'-0"	1'-6"	3'-9"	6'-0"	8'-4"	-	-
	18"	22'	1'-0"	1'-0"	1'-0"	2'-4"	5'-1"	8'-3"	-	-	1'-0"	1'-0"	2'-9"	5'-0"	7'-3"	9'-8"	-	-
	10	24'	1'-0"	1'-0"	1'-0"	3'-6"	6'-4"	9'-7"	-	-	1'-0"	1'-8"	4'-0"	6'-3"	8'-6"	11'-1"	-	-
		26'	1'-0"	1'-0"	2'-0"	4'-8"	7'-7"	10'-11"	-	-	1'-0"	2'-11"	5'-3"	7'-6"	9'-9"	-	-	-
		28'	1'-0"	1'-0"	3'-2"	5'-10"	8'-10"	12'-4"	-	-	1'-11"	4'-2"	6'-6"	8'-9"	11'-0"	-	-	-
		30'	1'-0"	1'-9"	4'-3"	7'-0"	10'-1"	13'-8"	-	-	3'-2"	5'-5"	7'-9"	10'-0"	12'-3"	-	-	-
		32'	1'-0"	2'-10"	5'-5"	8'-3"	11'-5"	15'-1"	-	-	4'-5"	6'-8"	9'-0"	11'-3"	13'-6"	-	-	-
		34'	1'-5"	3'-11"	6'-7"	9'-6"	12'-9"	16'-6"	-	-	5'-8"	7'-11"	10'-3"	12'-6"	14'-11"	-	-	-
		12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-7"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-5"	4'-7"	-
		14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	4'-10"	-	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	3'-8"	5'-10"	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-3"	6'-2"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	4'-11"	7'-2"	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-11"	4'-5"	7'-6"	-	1'-0"	1'-0"	1'-0"	1'-11"	4'-1"	6'-2"	-	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	5'-8"	8'-11"	-	1'-0"	1'-0"	1'-0"	3'-2"	5'-4"	7'-5"	-	-
	20"	22'	1'-0"	1'-0"	1'-0"	1'-9"	4'-2"	6'-11"	10'-3"	-	1'-0"	1'-0"	2'-3"	4'-5"	6'-7"	8'-8"	-	-
	20	24'	1'-0"	1'-0"	1'-0"	2'-10"	5'-4"	8'-3"	-	-	1'-0"	1'-5"	3'-6"	5'-8"	7'-10"	9'-11"	-	-
		26'	1'-0"	1'-0"	1'-7"	3'-11"	6'-7"	9'-7"	-	-	1'-0"	2'-8"	4'-9"	6'-11"	9'-1"	11'-3"	-	-
		28'	1'-0"	1'-0"	2'-8"	5'-1"	7'-10"	10'-11"	-	-	1'-9"	3'-11"	6'-0"	8'-2"	10'-4"	12'-8"	-	-
		30'	1'-0"	1'-5"	3'-9"	6'-3"	9'-1"	12'-3"	-	-	3'-0"	5'-2"	7'-3"	9'-5"	11'-7"	14'-2"	-	-
1 56		32'	1'-0"	2'-6"	4'-10"	7'-6"	10'-4"	13'-7"	-	-	4'-3"	6'-5"	8'-6"	10'-8"	12'-10"	-	-	-
LPI 36, LPI		34'	1'-3"	3'-7"	6'-0"	8'-8"	11'-8"	15'-0"	-	-	5'-6"	7'-8"	9'-9"	11'-11"	14'-1"	-	-	-
36,		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-11"	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	4'-2"	6'-3"	-
4		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	3'-6"	6'-2"	-	1'-0"	1'-0"	1'-0"	1'-5"	3'-5"	5'-5"	7'-6"	-
_		20'	1'-0"	1'-0"	1'-0"	1'-0"	2'-4"	4'-9"	7'-6"	-	1'-0"	1'-0"	1'-0"	2'-8"	4'-8"	6'-8"	8'-10"	-
		22'	1'-0"	1'-0"	1'-0"	1'-2"	3'-5"	5'-11"	8'-10"	-	1'-0"	1'-0"	1'-11"	3'-11"	5'-11"	7'-11"	10'-3"	-
		24'	1'-0"	1'-0"	1'-0"	2'-3"	4'-7"	7'-2"	10'-3"	-	1'-0"	1'-2"	3'-2"	5'-2"	7'-2"	9'-2"	-	-
	22"	26'	1'-0"	1'-0"	1'-2"	3'-5"	5'-9"	8'-6"	11'-7"	-	1'-0"	2'-5"	4'-5"	6'-5"	8'-5"	10'-5"	-	-
	22	28'	1'-0"	1'-0"	2'-3"	4'-6"	7'-0"	9'-9"	13'-0"	-	1'-8"	3'-8"	5'-8"	7'-8"	9'-8"	11'-8"	-	-
		30'	1'-0"	1'-2"	3'-4"	5'-8"	8'-3"	11'-1"	14'-5"	-	2'-11"	4'-11"	6'-11"	8'-11"	10'-11"	13'-1"	-	-
		32'	1'-0"	2'-3"	4'-5"	6'-10"	9'-6"	12'-5"	-	-	4'-2"	6'-2"	8'-2"	10'-2"	12'-2"	14'-6"	-	-
		34'	1'-2"	3'-4"	5'-7"	8'-1"	10'-9"	13'-9"	-	-	5'-5"	7'-5"	9'-5"	11'-5"	13'-5"	15'-11"	-	-
		36'	2'-2"	4'-5"	6'-9"	9'-3"	12'-1"	15'-2"	-	-	6'-8"	8'-8"	10'-8"	12'-8"	14'-8"	17'-5"	-	-
		38'	3'-3"	5'-6"	7'-11"	10'-6"	13'-4"	16'-6"	-	-	7'-11"	9'-11"	11'-11"	13'-11"	15'-11"	-	-	-
		16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	3'-11"	6'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	3'-7"	5'-6"	-
		18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	5'-2"	8'-1"	1'-0"	1'-0"	1'-0"	1'-0"	2'-11"	4'-10"	6'-9"	-
		20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	3'-11"	6'-6"	-	1'-0"	1'-0"	1'-0"	2'-3"	4'-2"	6'-1"	8'-0"	-
		22'	1'-0"	1'-0"	1'-0"	1'-0"	2'-10"	5'-2"	7'-9"	-	1'-0"	1'-0"	1'-7"	3'-6"	5'-5"	7'-4"	9'-3"	-
		24'	1'-0"	1'-0"	1'-0"	1'-10"	4'-0"	6'-5"	9'-1"	-	1'-0"	1'-0"	2'-10"	4'-9"	6'-8"	8'-7"	10'-8"	-
	24"	26'	1'-0"	1'-0"	1'-0"	2'-11"	5'-2"	7'-8"	10'-5"	-	1'-0"	2'-2"	4'-1"	6'-0"	7'-11"	9'-10"	12'-1"	-
		28'	1'-0"	1'-0"	1'-11"	4'-0"	6'-4"	8'-11"	11'-10"	-	1'-7"	3'-5"	5'-4"	7'-3"	9'-2"	11'-1"	-	-
		30'	1'-0"	1'-0"	3'-0"	5'-2"	7'-7"	10'-2"	13'-2"	-	2'-10"	4'-8"	6'-7"	8'-6"	10'-5"	12'-4"	-	-
		32'	1'-0"	2'-0"	4'-1"	6'-4"	8'-10"	11'-6"	14'-7"	-	4'-1"	5'-11"	7'-10"	9'-9"	11'-8"	13'-7"	-	-
		34'	1'-1"	3'-1"	5'-3"	7'-7"	10'-1"	12'-10"	16'-0"	-	5'-4"	7'-2"	9'-1"	11'-0"	12'-11"	15'-0"	-	-
		36'	2'-1"	4'-2"	6'-5"	8'-9"	11'-4"	14'-2"	17'-5"	-	6'-7"	8'-5"	10'-4"	12'-3"	14'-2"	16'-6"	-	-
		38'	3'-2"	5'-3"	7'-7"	10'-0"	12'-7"	15'-6"	-	-	7'-10"	9'-8"	11'-7"	13'-6"	15'-5"	17'-11"	-	-

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTAN	ICE FRO	M END	SUPPOR	RT (feet-	inches)		DI	STANCE	FROM	INTERIO	OR SUPP	ORT (fe	et-inche	s)
JOIST	DEPTH	SPAN	М	aximum	Hole Di	mension	: Depth	or Widt	h (inche	s)	M	laximum	Hole Di	mensio	n: Depth	or Widt	h (inche	s)
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-7"	-	-	1'-0"	1'-0"	1'-3"	1'-7"	1'-10"	2'-2"	-	-
		8'	1'-0"	1'-0"	1'-8"	2'-0"	2'-5"	2'-11"	-	-	1'-0"	1'-3"	2'-6"	2'-10"	3'-1"	3'-5"	-	-
		10'	1'-0"	1'-4"	2'-10"	3'-4"	3'-9"	4'-3"	-	-	1'-4"	2'-6"	3'-9"	4'-1"	4'-5"	-	-	-
	91/2"	12'	1'-1"	2'-6"	4'-2"	4'-7"	5'-1"	-	-	-	2'-7"	3'-9"	5'-0"	5'-5"	-	-	-	-
	9.12	14'	2'-3"	3'-9"	5'-6"	6'-0"	6'-6"	-	-	-	3'-10"	5'-0"	6'-4"	-	-	-	-	-
		16'	3'-5"	5'-0"	6'-10"	7'-4"	-	-	-	-	5'-1"	6'-3"	-	-	-	-	-	-
		18'	4'-8"	6'-4"	8'-3"	-	-	-	-	-	6'-4"	7'-6"	-	-	-	-	1	-
		20'	5'-11"	7'-8"	9'-7"	-	-	-	-	-	7'-7"	8'-11"	-	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-1"	1'-5"	-	-	-	1'-0"	1'-0"	1'-0"	1'-9"	2'-0"	-	-	-
		8'	1'-0"	1'-0"	1'-0"	2'-3"	2'-8"	-	-	-	1'-0"	1'-0"	1'-11"	3'-0"	3'-3"	-	-	-
		10'	1'-0"	1'-0"	2'-2"	3'-7"	4'-0"	-	-	-	1'-2"	2'-2"	3'-2"	4'-3"	-	-	-	-
		12'	1'-0"	2'-1"	3'-5"	4'-11"	5'-5"	-	-	-	2'-5"	3'-5"	4'-5"	5'-8"	-	-	-	-
	11 ⁷ /8"	14'	2'-0"	3'-3"	4'-8"	6'-3"	-	-	-	-	3'-8"	4'-8"	5'-8"	-	-	-	-	-
	11 /8	16'	3'-2"	4'-6"	6'-0"	7'-8"	-	-	-	-	4'-11"	5'-11"	7'-0"	-	-	-	-	-
		18'	4'-5"	5'-9"	7'-4"	-	-	-	-	-	6'-2"	7'-2"	8'-6"	-	-	-	-	-
		20'	5'-8"	7'-1"	8'-8"	-	-	-	-	-	7'-5"	8'-5"	-	-	-	-	-	-
		22'	6'-11"	8'-5"	10'-1"	-	-	-	-	-	8'-8"	9'-10"	-	-	-	-	-	-
		24'	8'-2"	9'-9"	11'-6"	-	-	-	-	-	9'-11"	11'-3"	-	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	2'-1"	2'-8"	-	-	1'-0"	1'-0"	1'-0"	1'-7"	2'-10"	3'-3"	-	-
0		10'	1'-0"	1'-0"	1'-0"	1'-8"	3'-4"	4'-0"	-	-	1'-0"	1'-0"	1'-6"	2'-10"	4'-1"	-	-	-
LPI 450		12'	1'-0"	1'-0"	1'-4"	2'-10"	4'-8"	5'-4"	-	-	1'-0"	1'-6"	2'-9"	4'-1"	5'-6"	-	-	-
<u> </u>		14'	1'-0"	1'-0"	2'-6"	4'-1"	6'-1"	-	-	-	1'-5"	2'-9"	4'-0"	5'-4"	-	-	-	-
		16'	1'-0"	2'-1"	3'-8"	5'-5"	7'-5"	-	-	-	2'-8"	4'-0"	5'-3"	6'-7"	-	-	-	-
	14"	18'	1'-9"	3'-3"	4'-11"	6'-9"	-	-	-	-	3'-11"	5'-3"	6'-6"	7'-11"	-	-	-	-
		20'	2'-11"	4'-5"	6'-2"	8'-1"	-	-	-	-	5'-2"	6'-6"	7'-9"	9'-4"	-	-	-	-
		22'	4'-0"	5'-8"	7'-5"	9'-5"	-	-	-	-	6'-5"	7'-9"	9'-0"	-	-	-	-	-
		24'	5'-3"	6'-11"	8'-9"	10'-10"	-	-	-	-	7'-8"	9'-0"	10'-4"	-	-	-	-	-
		26'	6'-5"	8'-2"	10'-1"	12'-2"	-	-	-	-	8'-11"	10'-3"	11'-9"	-	-	-	-	-
		28'	7'-8"	9'-6"	11'-5"	13'-7"	-	-	-	-	10'-2"	11'-6"	13'-2"	-	-	-	-	-
		30'	8'-11"	10'-9"	12'-9"	-	-	-	-	-	11'-5"	12'-9"	14'-8"	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	3'-0"	-	-	1'-0"	1'-0"	1'-0"	1'-1"	2'-3"	3'-6"	-	-
		10'	1'-0"	1'-0"	1'-0"	1'-2"	2'-7"	4'-4"	-	-	1'-0"	1'-0"	1'-2"	2'-4"	3'-6"	-	-	-
		12'	1'-0"	1'-0"	1'-0"	2'-4"	3'-10"	-	-	-	1'-0"	1'-3"	2'-5"	3'-7"	4'-9"	-	-	-
		14'	1'-0"	1'-0"	2'-1"	3'-6"	5'-2"	-	-	-	1'-4"	2'-6"	3'-8"	4'-10"	6'-1"	-	-	-
		16'	1'-0"	1'-10"	3'-3"	4'-9"	6'-6"	-	-	-	2'-7"	3'-9"	4'-11"	6'-1"	7'-6"	-	-	-
	16"	18'	1'-8"	3'-0"	4'-5"	6'-1"	7'-11"	-	-	-	3'-10"	5'-0"	6'-2"	7'-4"	-	-	-	-
		20'	2'-9"	4'-2"	5'-8"	7'-4"	9'-3"	-	-	-	5'-1"	6'-3"	7'-5"	8'-8"	-	-	-	-
		22'	3'-11"	5'-4"	6'-11"	8'-8"	-	-	-	-	6'-4"	7'-6"	8'-8"	10'-1"	-	-	-	-
		24'	5'-1"	6'-7"	8'-3"	10'-1"	-	-	-	-	7'-7"	8'-9"	9'-11"	11'-7"	-	-	-	-
		26'	6'-3"	7'-10"	9'-7"	11'-5"	-	-	-	-	8'-10"	10'-0"	11'-3"	-	-	-	-	-
		28'	7'-6"	9'-2"	10'-11"	12'-10"	-	-	-	-	10'-1"	11'-3"	12'-8"	-	-	-	-	-
		30'	8'-9"	10'-5"	12'-3"	14'-3"	-	-	-	-	11'-4"	12'-6"	14'-2"	-	-	-	-	

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm.

	JOIST	CLEAR		DISTAN	NCE FRO	OM END	SUPPOR	RT (feet-	inches)		DI	STANCE	FROM	INTERIO	OR SUPP	ORT (fe	et-inche	es)
JOIST	DEPTH	SPAN	М		Hole Di			•		s)				mensior				
SERIES	(in.)	(ft.)	2"	4"	6"	8"	10"	12"	14"	16"	2"	4"	6"	8"	10"	12"	14"	16"
		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"	-	-
		8'	1'-0"	1'-0"	1'-3"	1'-8"	2'-2"	2'-8"	-	-	1'-0"	1'-0"	2'-2"	2'-6"	2'-11"	3'-3"	-	-
		10'	1'-0"	1'-0"	2'-6"	2'-11"	3'-5"	3'-11"	-	-	1'-0"	2'-1"	3'-5"	3'-9"	4'-2"	-	-	-
		12'	1'-0"	2'-0"	3'-9"	4'-3"	4'-9"	5'-4"	-	-	2'-0"	3'-4"	4'-8"	5'-0"	5'-6"	-	-	-
	91/2"	14'	1'-7"	3'-2"	5'-0"	5'-7"	6'-1"	-	-	-	3'-3"	4'-7"	5'-11"	6'-5"	-	-	-	-
		16'	2'-9"	4'-5"	6'-4"	6'-11"	7'-6"	-	-	-	4'-6"	5'-10"	7'-5"	-	-	-	-	-
		18'	3'-11"	5'-8"	7'-9"	8'-4"	-	-	-	-	5'-9"	7'-1"	-	-	-	-	-	-
		20'	5'-2"	7'-0"	9'-1"	-	-	-	-	-	7'-0"	8'-4"	-	-	-	-	-	-
		6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-2"	1'-8"	-	-	1'-0"	1'-0"	1'-0"	1'-6"	1'-10"	2'-2"	-	-
		8'	1'-0"	1'-0"	1'-0"	2'-0"	2'-5"	2'-11"	-	-	1'-0"	1'-0"	1'-7"	2'-9"	3'-1"	3'-5"	-	-
		10'	1'-0"	1'-0"	1'-9"	3'-3"	3'-9"	4'-3"	-	-	1'-0"	1'-9"	2'-10"	4'-0"	4'-5"	-	-	-
		12'	1'-0"	1'-7"	2'-11"	4'-6"	5'-1"	-	-	-	1'-10"	3'-0"	4'-1"	5'-4"	-	-	-	-
	11 ⁷ /8"	14'	1'-5"	2'-9"	4'-2"	5'-11"	6'-6"	-	-	-	3'-1"	4'-3"	5'-4"	-	-	-	-	-
	11 /8	16'	2'-6"	3'-11"	5'-6"	7'-3"	-	-	-	-	4'-4"	5'-6"	6'-7"	-	-	-	-	-
		18'	3'-8"	5'-2"	6'-9"	8'-8"	-	-	-	-	5'-7"	6'-9"	7'-11"	-	-	-	-	-
		20'	4'-11"	6'-5"	8'-2"	-	-	-	-	-	6'-10"	8'-0"	9'-5"	-	-	-	-	-
		22'	6'-1"	7'-9"	9'-6"	-	-	-	-	-	8'-1"	9'-3"	-	-	-	-	-	-
		24'	7'-5"	9'-1"	10'-11"	-	-	-	-	-	9'-4"	10'-7"	-	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-4"	3'-0"	-	1'-0"	1'-0"	1'-0"	1'-2"	2'-7"	3'-0"	-	-
0		10'	1'-0"	1'-0"	1'-0"	1'-3"	3'-0"	3'-8"	4'-4"	-	1'-0"	1'-0"	1'-0"	2'-5"	3'-10"	4'-4"	-	-
LPI 530		12'	1'-0"	1'-0"	1'-0"	2'-5"	4'-4"	5'-0"	-	-	1'-0"	1'-0"	2'-3"	3'-8"	5'-1"	-	-	-
<u>-</u>		14'	1'-0"	1'-0"	1'-10"	3'-7"	5'-8"	6'-4"	-	-	1'-0"	2'-1"	3'-6"	4'-11"	6'-6"	-	-	-
		16'	1'-0"	1'-4"	3'-0"	4'-10"	7'-0"	-	-	-	1'-10"	3'-4"	4'-9"	6'-2"	-	-	-	-
	14"	18'	1'-0"	2'-5"	4'-2"	6'-2"	8'-5"	-	-	-	3'-1"	4'-7"	6'-0"	7'-5"	-	-	-	-
		20'	1'-11"	3'-7"	5'-5"	7'-5"	-	-	-	-	4'-4"	5'-10"	7'-3"	8'-9"	-	-	-	-
		22'	3'-1"	4'-9"	6'-8"	8'-9"	-	-	-	-	5'-7"	7'-1"	8'-6"	10'-2"	-	-	-	-
		24'	4'-3"	6'-0"	7'-11"	10'-2"	-	-	-	-	6'-10"	8'-4"	9'-9"	11'-8"	-	-	-	-
		26'	5'-5"	7'-3"	9'-3"	11'-6"	-	-	-	-	8'-1"	9'-7"	11'-0"	-	-	-	-	-
		28'	6'-7"	8'-6"	10'-7"	12'-11"	-	-	-	-	9'-4"	10'-10"	12'-5"	-	-	-	-	-
		30'	7'-10"	9'-9"	11'-11"	14'-4"	-	-	-	-	10'-7"	12'-1"	13'-10"	-	-	-	-	-
		8'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-8"	-	-	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-3"	-	-
		10' 12'	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	1'-0" 1'-9"	2'-2" 3'-5"	4'-0" 5'-5"	-	-	1'-0"	1'-0" 1'-0"	1'-0" 1'-10"	1'-11" 3'-2"	3'-3" 4'-6"	-	-	-
		14'	1'-0"	1'-0"	1'-5"	2'-11"	3-5 4'-8"	o-o -	-	-	1'-0"	1'-10"	3'-1"	3-2 4'-5"	4 -6 5'-9"	-	-	-
		16'	1'-0"	1'-1"	2'-7"	4'-2"	6'-0"	-	-	-	1'-9"	3'-1"	3-1 4'-4"	4-5 5'-8"	5-9 7'-1"	-	-	-
		18'	1'-0"	2'-2"	3'-9"	4 -2 5'-5"	7'-4"	-	-	-	3'-0"	4'-4"	5'-7"	6'-11"	7 - I 8'-6"	-	-	-
	16"	20'	1'-10"	3'-4"	3-9 4'-11"	5-5 6'-8"	7 -4 8'-9"	-	-	-	3-0 4'-3"	5'-7"	6'-10"	8'-2"	- 0	-	-	-
		22'	2'-11"	3-4 4'-6"	6'-2"	8'-0"	10'-1"	-	-	-	4-3 5'-6"	6'-10"	8'-1"	9'-5"		-	-	-
		24'	4'-1"	5'-8"	7'-5"	9'-4"	11'-6"	-	-	-	6'-9"	8'-1"	9'-4"	10'-11"	-	-	-	-
		26'	5'-3"	6'-11"	8'-9"	10'-8"	-	-	-	-	8'-0"	9'-4"	10'-7"	12'-4"	-	_		H
		28'	6'-5"	8'-2"	10'-0"	12'-1"					9'-3"	10'-7"	11'-10"	14-4				
		30'	7'-8"	9'-5"	11'-4"	13'-5"					10'-6"	11'-10"	13'-3"					-
	l	30	1-0	უ-ე	11-4	13-3		-	-		10-0	11-10	13-3					

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm.

¹The hole locations listed above are valid for joists supporting only uniform loads. The total uniform load must not exceed 130 plf (e.g., 40 psf Live Load and a 25 psf Dead Load, spaced up to 24 inches o.c.). The uniform Dead Load must be at least 10 plf.

²Hole location is measured from the inside face of the nearest support to the nearest edge of a rectangular hole.

³Maximum hole depth for rectangular holes is the Joist Depth less 4 inches, except the maximum hole depth is 6 inches for 9½-inch-deep joists, and 8 inches for 11½-inch-deep joists. Maximum hole width for rectangular holes is 18 inches. Where the Maximum Hole Dimension for rectangular holes exceeds the maximum hole depth, the dimension refers to hole width and the hole depth is assumed to be the maximum for that joist depth.

⁴Holes cannot be located in the span where designated "-", without further analysis by a design professional (see note 6 below).

⁵Clear 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.

⁶Larger holes, greater uniform loads or nonuniform loads, and closer proximity to supports and other holes may be possible with further analysis (See Section 4.4 and the web hole shear equations listed in Table 10).

TABLE 10—CIRCULAR AND RECTANGULAR WEB HOLE SHEAR EQUATIONS (May be used in lieu of the web hole charts)

Joist Series	Joist Depth (in.)	AR HOLE EQUATION CO	NSIANIS	
JUIST 361162	JUIST DEDTH (III.)	C1	C2	C3
		SAWN LUMBER FLANGE		- 03
LPI 18	9 ¹ / ₂ " to 16"	Vr	0	0
LPI 20Plus, LPI 20x4 LPI 32Plus LPI 42Plus LPI 52Plus	9 ¹ / ₂ " to 16"	1041	0	361
LPI 42Plus LPI 52Plus	18" to 24"	2489	0	88
<u> </u>		LVL FLANGES	•	
LPI 26	$9^{1}/_{2}$ " to $11^{7}/_{8}$ "	1235	0	45
LPI 30	9 ¹ / ₂ " to 16"	1041	0	361
LPI 36	11 ⁷ / ₈ " to 16"	1621	0	124
LPI 56	18" to 24"	2489	0	88
LPI 450 LPI 530	9 ¹ / ₂ " to 16"	Vr	0	0
	RECTANGU	JLAR HOLE EQUATION	CONSTANTS	
Joist Series	Joist Depth (in.)	C1	C2	C3
·		SAWN LUMBER FLANGE	S	
LPI 18	9 ¹ / ₂ " to 11 ⁷ / ₈ "	554	-20.4	256
	14" & 16"	977	-30.7	375
LPI 20Plus, LPI 20x4 LPI 32Plus	$9^{1}/_{2}$ " to $11^{7}/_{8}$ "	610	-22.4	282
LPI 42Plus LPI 52Plus	14" & 16"	1075	-33.8	413
LPI 42Plus LPI 52Plus	18" to 24"	1731	-52.0	599
·		LVL FLANGES		
LPI 26	$9^{1}/_{2}$ " to $11^{7}/_{8}$ "	610	-22.4	282
LPI 30 LPI 36	14" & 16"	1075	-33.8	413
LPI 56	18" to 24"	1731	-52.0	599
LPI 450	9 ¹ / ₂ " to 11 ⁷ / ₈ "	549	-20.2	254
LF1 450	14" & 16"	813	-25.6	312
LPI 530	$9^{1}/_{2}$ " to $11^{7}/_{8}$ "	610	-22.4	282
LI 1 330	14" & 16"	903	-28.4	347

For **SI:** 1 in = 25.4 mm, 1 lbf = 4.448 N.

¹The equation to determine the allowable shear at the location of a web hole is:

 $V_{Hole} = C1 * (D_{Joist} - D_{Hole}) / D_{Joist} + C2 * W_{Hole} + C3$

If V_{Hole} < 200 lbf, then V_{Hole} = 0 lbf (hole not allowed)

Where: C1, C2 and C3 are the tabulated constants

V_{Hole} = allowable shear at critical location of hole (lbf) (see Note 3 below)

 D_{Joist} = Depth of I-joist (in)

D_{Hole} = Diameter or Depth of hole (in)

 W_{Hole} = Width of hole (in)

For the LPI 18, LPI 450 and LPI 530:

V_r = reference design shear (lbf) from Table 2, corresponding to the depth of the I-joist being used.

²The Allowable Web Hole Shear calculated from above is for normal load duration and can be adjusted for other durations.

³The critical location for web hole shear is the center of a circular hole or either edge of a rectangular hole.

⁴Web hole height may be full depth of the I-joist web. A minimum ¹/₄-inch clear distance is recommended between the hole and the flanges: Do NOT cut the flanges. The maximum hole width for rectangular holes is 18 inches.

⁵Except as noted in Figure 2, web holes cannot be located any closer than 1 foot from the inside face of the closest bearing to the critical location of the hole (see note 3), without further analysis by a design professional.

⁶Refer to Figure 2 for general information pertaining to locating holes in I-joist webs.

TABLE 11—OBROUND WEB HOLE SHEAR CAPACITY (May be used in lieu of the web hole charts)

JOIST SERIES	JOIST DEPTH	HOLE SHEAR, V _{Hole} (lbf)
	SAWN LUMBER FLANGES	
	9 ¹ / ₂ "	479
LPI 18	11 ⁷ / ₈ "	486
LPI IO	14"	422
	16"	381
LPI 20Plus, LPI 20x4	9 ¹ / ₂ "	533
LPI 32Plus	11 ⁷ / ₈ "	541
LPI 42Plus	14"	469
LPI 52Plus	16"	424
LPI 42Plus LPI 52Plus	18" to 24" ³	424
	LVL FLANGES	
LPI 26	Not	Allowed
LPI 30	9 ¹ / ₂ " to 16"	360
LPI 36	11 ⁷ / ₈ " to 16"	420
LPI 56	18" to 24" ³	420
LPI 450 LPI 530	Not	Allowed

For **SI**: 1 in = 25.4 mm, 1 lbf = 4.448 N.

TABLE 12—I-JOIST RIM JOIST AND BLOCKING PANEL CAPACITIES^{1,2}

				UNIFORM	VERTICAL L	OAD CAPA	CITY (lbf/ft)			
JOIST		SAWN	LUMBER FL	ANGES			L	VL FLANGE	S	
DEPTH	LPI 18	LPI 20Plus LPI 20x4	LPI 32Plus	LPI 42Plus	LPI 52Plus	LPI 26	LPI 30	LPI 36	LPI 56	LPI 450 LPI 530
91/2"	1900	1900	2200	2200	2400	1800	1800	-	-	2000
11 ⁷ / ₈ "	1760	1760	2200	2200	2400	1800	1800	1800	2400	2000
14"	1600	1600	1600	2000	2200	-	1800	1800	2200	1100
16"	1200	1500	1500	2000	2000	=	1800	1800	1900	1100
18"	1	-	-	1700	1700	-	-	1300	1700	-
20"	1	-	-	1580	1580	-	-	1300	1580	-
22"		-	-	1300	1300	=	-	1200	1300	-
24"	-	-	-	1100	1100	-	-	1100	1100	-

For **SI**: 1 in = 25.4 mm; 1 lbf/ft = 14.6 N/m.

¹Obround holes are (up to) full web-depth holes with semi-circular ends defined by three overlapping circular holes spaced up to 1½ inches apart, center-to-center of holes.

²Obround hole allowable shears are based on the maximum size hole for a joist depth. Smaller obround holes are permissible but are limited to the same value.

³For I-joist depths greater than 16 inches, the maximum obround hole for the 16" Joist Depth is permitted to be cut using the allowable for the 16" Joist Depth. The obround hole shall be centered on the depth of the I-joist.

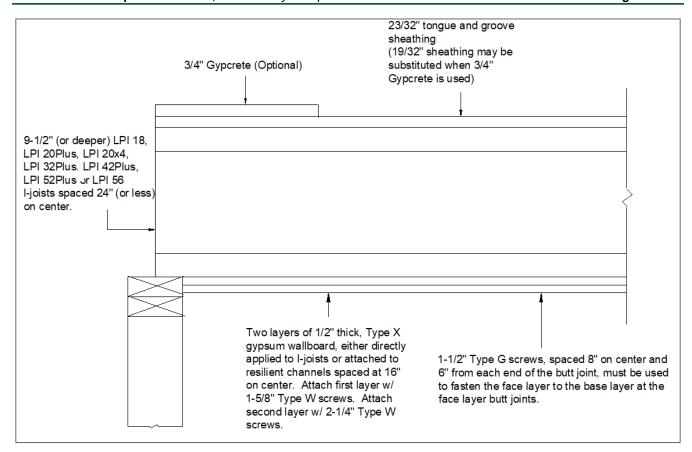
⁴The Allowable Web Hole Shear calculated from above is for normal load duration and can be adjusted for other durations.

⁵The critical location for web hole shear is at the center of either semi-circular end of an obround hole. ⁶Obround holes shall not be located any closer than 1 foot from the inside face of the closest bearing to the critical location of the hole (see note 5), without further analysis by a registered design professional.

⁷Refer to the Figure 2 for general information pertaining to locating holes in I-joist webs.

¹LP[®] SolidStart[®] I-Joists with allowable uniform vertical load transfer capacities of 2000 lbf/ft or greater may be used either as rim joists or blocking panels in prescriptive framing. LP SolidStart I-Joists with allowable uniform vertical load transfer capacities less than 2000 lbf/ft may be used only as blocking panels unless designed as a rim joist by a registered design professional.

²LP I-Joists used as rim joists shall be limited to a maximum shear load of 200 lbf/ft for I-Joists with LVL flanges or 230 lbf/ft for I-Joists with sawn lumber flanges. These limits are permitted to be multiplied by 1.4 for wind load applications and shall be multiplied by 0.63 and 0.56 for shear loads of normal and permanent load durations, respectively. The minimum nail spacing and end distances shall not be less than as given in Table 6.



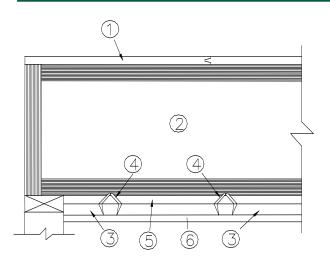
	FLOOR ASSEMBLY	STC	IIC
w/o	GYPCRETE	F0	50
w/	RESILIENT CHANNEL w/ CARPET/PAD	50	50
w/	GYPCRETE	50	50
w/	RESILIENT CHANNEL w/ CARPET/PAD	50	50
w/	GYPCRETE	50	50
w/o	RESILIENT CHANNEL w/ CARPET/PAD	50	50

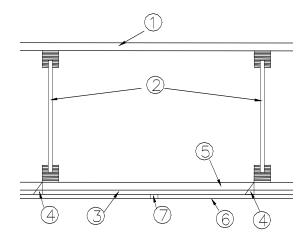
For **SI:** 1 in. = 25.4 mm.

NOTES:

- 1. Carpet is minimum 57 ounce carpet with 0.531 inch pile height and ½-inch-thick 4 pcf density foam pad.
- 2. Vinyl is minimum 0.06-inch thick with cushioned vinyl minimum 0.01-inch-thick wear layer.
- 3. Gypsum concrete is minimum ³/₄-inch thick over ¹⁹/₃₂-inch plywood.
- The plywood must be glued at tongue and groove joints and to the I-Joists. 4.
- Cavity is insulated with 31/2-inch-thick fiberglass batts between joists.

FIGURE 3—ONE-HOUR FLOOR-CEILING FIRE-RESISTIVE ASSEMBLY





For **SI**: 1 in = 25.4 mm, 1 ft = 305 mm.

1. Floor Sheathing

²³/₃₂-inch thick 4-ft by 8- ft tongue and groove (APA Rated Sturdi-I-Floor) sheets installed perpendicular to I-Joists and fastened with an AFG-01 construction adhesive and 6d deformed shank or 8d common nails, maximum 12 inches on center at all locations.

2. Wood I-Joists

 $LP^{\$}\ SolidStart^{\$}\ I-Joists\ shall\ be\ a\ minimum\ of\ 11^{1}/_{4}-inch\ deep\ with\ flange\ dimensions\ at\ least\ 1^{1}/_{2}\ inches\ x$ $1^{1}/_{2}$ inches of LVL or $1^{1}/_{2}$ inches x $2^{1}/_{2}$ inches of sawn lumber, and a minimum of $3/_{8}$ inch thick OSB web. Maximum I-Joist spacing is 24 inches on center. Use 1 inch minimum rim board or blocking panels at the I-Joist ends, installed in accordance with the manufacturer's published installation instructions. Holes in the webs per manufacturers' instructions are permitted.

3. Furring Channels

Resilient furring channels measuring 2.636 inches wide by 0.838 inches deep formed from No. 26 gauge (0.0719 inch) galvanized steel sheet spaced 24-in. on center perpendicular to the joists. Supported by Simpson CSC clips (4). At splices, channels overlapped 6 inches, and tied with two double strands of No. 18 SWG galvanized steel wire at each end of overlap. At wallboard end joints, a second length of channel is installed adjacent to the first to provide one channel for each wallboard end. Second channel span from joist to joist outside the wallboard width to support the entire end of the wallboard.

4. Hanger Clips

Simpson Type CSC hangers for furring channels. One at each intersection of joist and channel nailed with one 6d or 8d common nail.

5. Insulation

1-inch thick 24x48-inch mineral wood batts with nine pounds per cubic foot density.

6. Gypsum Wallboard

5/8-inch thick US Gypsum Company Firecode C in 4-foot wide sheets installed perpendicular to furring channels with 1-inch long Type S wallboard screws on 8-in. centers. End joints attached to the doubled channels, long joints backed by sheet metal Tee-Sections (7). Edges of wallboard attached to Tee-Sections by 1-inch Type S wallboard screws 8-in. on center with one screw at each Tee-Section-channel intersection.

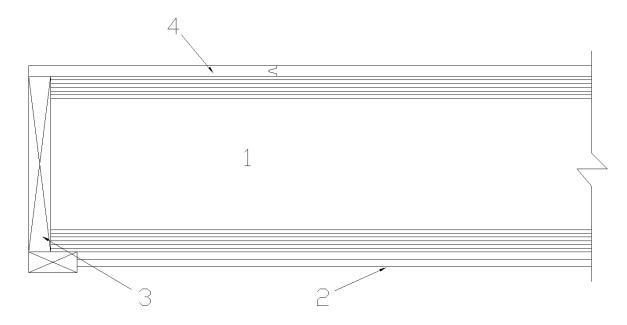
7. Tee-Section

Formed from No. 20 gauge (0.0359 inch) galvanized steel sheet. Sections are 17/8-in. wide overall with the short leg 1/2-inch long overall.

8. Finish System

(Not Shown) Paper tape embedded in joint compound over joints with edges of compound feathered out and exposed screw heads covered with compound.

FIGURE 4—ONE-HOUR FLOOR-CEILING FIRE-RESISTIVE ASSEMBLY



For **SI:** 1 in = 25.4 mm, 1 ft = 305 mm.

Wood I-Joists

LP® SolidStart® I-Joists shall be a minimum of $11^1/_4$ inches deep with flange dimensions at least $1^1/_2$ inches x $1^1/_2$ inches of LVL and minimum of $3/_8$ -inch thick OSB web. Maximum spacing is 24 inches on center. Holes in the webs per manufacturers' instructions are permitted.

Gypsum Wallboard

2 layers of 1/2-inch thick Type FSW-C gypsum wallboard in 4-foot wide sheets, manufactured by National Gypsum, are directly attached to the bottom flanges of the joists. The long dimension of the wallboard is oriented perpendicular to the joists. The first layer is fastened to the joists with 11/4-inch Type S drywall screws spaced 24 inches on center, butt joints being staggered 25 inches from the adjacent rows of the face layer. The second layer is fastened to the joists with 13/8-inch Type S drywall screws spaced 12 inches on center with its joints being staggered 24 inches in each direction from joints of the first layer.

End Rim/Blocking

Use 1-inch minimum rim board or blocking panels installed in accordance with the manufacturer's published installation instructions.

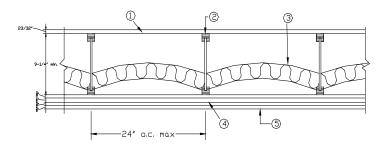
Floor Sheathing

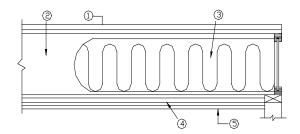
¹⁹/₃₂-inch thick tongue-and-groove in 4-foot x 8-foot sheets installed with long edge perpendicular to the joists and fastened with 8d common or 6d shank nails at a maximum 6 inches on center at all locations. End joints are staggered 24 inches from adjacent rows.

Finish System (Not Shown)

Exposed wallboard joints are treated with paper tape embedded in joint compound and covered with two coats of compound. Screw heads are covered with two coats of joint compound.

FIGURE 5—ONE-HOUR FLOOR-CEILING FIRE-RESISTIVE ASSEMBLY





For **SI:** 1 in = 25.4 mm, 1 ft = 305 mm.

Floor Sheathing

Panels shall conform to the requirements of PS 1-83, Exposure 1, interior type with exterior glue, minimum ²³/₃₂-inch thick, tongue-and-groove long edges for floors and a minimum ¹⁵/₃₂-inch thick square edges for roofs. Install long edges perpendicular to the I-Joists. Stagger end joints on I-Joists. For floors, apply AFG-01 construction adhesive in a 3/8-inch bead on the top surface of the I-Joists, and grooved edges of the sheathing. Nail with 6d deformed shank nails, 8d common nails, or equivalent-sized screws a maximum of 6 inches on center on the panel ends, and a maximum of 12 inches on center in the field. Optionally, with minimum $^{3}/_{4}$ -inch thick light-weight concrete of floor topping mixture, panels shall be minimum $^{19}/_{32}$ -inch thick.

Wood I-Joists

LP® SolidStart® I-Joists shall be minimum 91/4-inch deep with flange dimensions of at least $1^{1}/_{2}$ inches x $1^{1}/_{2}$ inches of LVL or $1^{1}/_{2}$ inches x $2^{1}/_{2}$ inches of sawn lumber, and minimum $3/_{8}$ -inch-thick OSB webs. Maximum spacing is 24 inches on center. Holes in the webs per manufacturers' instructions are permitted.

Insulation

Unfaced fiberglass batts 24 inches wide by 48 inches long by 31/2-inches thick with 3.5 pcf density placed in the plenum and supported by stay wires spaced about 12 inches apart.

Furring channels

Resilient furring channels formed from No. 28 gauge (0.0179 inch) galvanized sheet steel measuring 2.636 inches wide by 0.838 inches deep spaced 16 inches on center perpendicular to the joists and attached to the joist by 15/8-inch Type S wallboard screws.

Gypsum Wallboard

Wallboard is 5/8-inch-thick US Gypsum Firecode C, Celotex Fi-Rok Plus, Georgia-Pacific Fire Stop C, or Gold Bond Fire-Shield FSW-C. Install the base layer perpendicular to the joists with the ends staggered at the joists with 15/g-inch-long Type S wallboard screws at 12 inches on center. Furring channels are installed as described above between the base and intermediate layers. The intermediate layer is attached perpendicular to the channels with the ends staggered at the channels with one-inch-long Type S wallboard screws at 12 inches on center. The finish layer is attached to the channels with 15/g-inchlong Type S wallboard screws spaced 8 inches on center. The ends of the finish layer are staggered at the channels with respect to each other and with respect to the intermediate layer end joints. Long joints of the finish layer are staggered with respect to the long joints of the intermediate layer.

Finish System (Not Shown)

On finish layer only. Paper tape embedded in joint compound over joints with compound edges feathered out and exposed screw heads covered with compound. As an alternative, nominal 23/32-inch-thick veneer plaster may be applied over the entire surface of the wallboard.

FIGURE 6—TWO-HOUR FLOOR-CEILING FIRE RESISTIVE ASSEMBLY

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ICC-ES Evaluation Report

ESR-1305 LABC and LARC Supplement

Reissued August 2021

This report is subject to renewal August 2023.

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A Subsidiary of the International Code Council®

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 17 33—Wood I-joists

REPORT HOLDER:

LOUISIANA-PACIFIC CORPORATION

EVALUATION SUBJECT:

LP® SOLIDSTART® I-JOISTS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that LP® SolidStart® I-joists, described in ICC-ES evaluation report <u>ESR-1305</u>, have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2020 City of Los Angeles Building Code (LABC)
- 2020 City of Los Angeles Residential Code (LARC)

2.0 CONCLUSIONS

The LP® SolidStart® I-joists, described in Sections 2.0 through 7.0 of the evaluation report ESR-1305, comply with the LABC Chapter 23, and the LARC, and are subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The LP® SolidStart® I-joists, described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-1305.
- The design, installation, conditions of use and identification are in accordance with the 2018 International Building Code[®]
 (IBC) and 2018 International Residential Code[®] (IRC) provisions noted in the evaluation report <u>ESR-1305</u>.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- Flanges must not be subjected to dynamic or static outward forces which may tend to separate the flanges from the web.
 Bottom flanges must not support load exceeding 250 pounds on each side of flange at 5 feet on center or 100 pounds per linear foot.

This supplement expires concurrently with the evaluation report, reissued August 2021.







Joint Evaluation Report

ESR-1305 FBC Supplement

Reissued August 2021

This report is subject to renewal August 2023.

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Purpose:

The purpose of this evaluation report supplement is to indicate that LP® SolidStart® I-Joists, described in ICC-ES evaluation report ESR-1305, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 Florida Building Code—Building
- 2020 Florida Building Code—Residential

2.0 CONCLUSIONS

The LP® SolidStart® I-Joists, described in Sections 2.0 through 7.0 of the evaluation report ESR-1305, comply with the *Florida Building Code—Building Code—Building Code—Residential*, provided the design requirements are determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-1305 for the 2018 *International Building Code®* (IBC) meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the LP® SolidStart® I-Joists for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building and the Florida Building Code—Residential* has not been evaluated, and is outside the scope of this evaluation report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official, when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued August 2021.

