



ICC-ES Evaluation Report

ESR-1741

Reissued July 2023

Revised September 2023

This report is subject to renewal July 2025.

DIVISION: 05 00 00—METALS
Section: 05 10 00—Structural Metal Framing
Section: 05 20 00—Metal Joists
Section: 05 40 00—Cold-Formed Metal Framing

REPORT HOLDER:

WARE INDUSTRIES, INC. (DBA Marino\WARE®)

EVALUATION SUBJECT:

JOISTRITE® FRAMING

1.0 EVALUATION SCOPE

Compliance with the following codes:

2021, 2018, 2015 and 2012 *International Building Code*® (IBC)

Property evaluated

Structural

2.0 USES

JoistRite® framing is used for floor framing.

3.0 DESCRIPTION

3.1 General:

JoistRite® framing is C-shaped cold-formed steel framing members used to form floor framing systems. The framing members have triangular shaped lipped-holes (see Figure 1) allowing for the routing of the building utilities. The holes are located with a minimum of 10 inches (254 mm) from the end of the member to the near edge of the hole. Member designations and descriptions are noted in Table 1.

3.2 Material:

JoistRite® framing members are available in minimum base steel thicknesses ranging from 0.0428 inch to 0.0966 inch (1.087 mm to 2.454 mm) and in the sizes and configurations shown in Table 1. They are cold formed from galvanized steel coils conforming to ASTM A653, SS Grade 33, or Grade 50, Class 1; or ASTM A1003, Structural Grade 33, Type H (ST33H), or Structural Grade 50, Type H (ST50H). The steel has a minimum G60 galvanization coating designation in conformance with ASTM A653.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The maximum allowable spans for the JoistRite® framing members based on loading are as shown in Table 2. The maximum allowable loads for a given span based on strength and deflection are as shown in Table 3.

4.2 Installation:

JoistRite® framing members must be installed in accordance with the applicable code, the approved construction documents and this report. If there is a conflict between the construction documents submitted for approval and this report, this report governs. The approved construction documents must be available at the jobsite at all times during installation. For all installations:

- Bearing stiffeners in accordance with Section F5 of the 2016 (2020) w/S2-20 edition of the North American Specification for Design of Cold-formed Steel Structural Members (Section C3.7 of the 2012 and 2007 editions) must be provided at points of concentrated loads or reactions.
- Structural sheathing must be attached to the compression flange of the JoistRite® framing member with fasteners spaced a maximum of 12 inches (305 mm) on center.
- Blocking/bridging must be provided at intervals of not more than 7 feet (2134 mm).
- Minimum end bearing must be 1.5 inches (38 mm).

5.0 CONDITIONS OF USE

The JoistRite® framing members described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Minimum uncoated base-metal thickness of the cold-formed steel members as delivered to the jobsite are in Table 1.
- 5.2** Complete construction documents and calculations verifying compliance with this report must be submitted to the code official for each project. The calculations and construction documents must be prepared and sealed by a registered design professional where

required by the statutes of the jurisdiction in which the project is to be constructed.

- 5.3 Installations are limited to simple span gravity load conditions.
- 5.4 JoistRite® framing members must not be cut or notched, or have additional holes placed in them.
- 5.5 The cold-formed steel members are manufactured in South Plainfield, New Jersey under an approved quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Cold-formed Steel Framing Members (AC46), dated October 2019 (editorially revised December 2020).

7.0 IDENTIFICATION

- 7.1 At a spacing not exceeding 96 inches (2440 mm) on center, each framing member is stamped with the MarinoWARE® name; the member designation as provided in Table 1; the evaluation report number (ICC-ES ESR-1741); the minimum uncoated base-metal thickness in mils or decimal inches; the minimum specified yield strength; and a designation for the G60 galvanized coating.

- 7.2 The report holder's contact information is the following:
WARE INDUSTRIES, INC. (dba MarinoWARE®)
400 METUCHEN ROAD
SOUTH PLAINFIELD, NEW JERSEY 07080
(908) 757-9000
www.marinoware.com

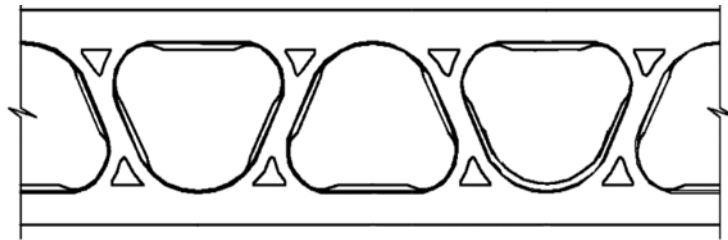


FIGURE 1—JOISTRITE® HOLES

TABLE 1—JoistRite® MEMBERS

SECTION IDENTIFICATION	F _y (ksi)	WEIGHT (plf)	WEB HEIGHT ¹ (in)	FLANGE (in)	LIP (in)	MINIMUM BASE STEEL THICKNESS (in)	HOLE SIZE (in)
800JR200-43	33	1.58	8.0	2.0	0.75	0.0428	5.25
800JR200-54	50	1.97	8.0	2.0	0.75	0.0538	5.25
800JR200-68	50	2.45	8.0	2.0	0.75	0.0677	5.25
800JR200-97	50	3.42	8.0	2.0	0.75	0.0966	5.25
800JR250-43	33	1.73	8.0	2.5	0.75	0.0428	5.25
800JR250-54	50	2.16	8.0	2.5	0.75	0.0538	5.25
800JR250-68	50	2.69	8.0	2.5	0.75	0.0677	5.25
800JR250-97	50	3.76	8.0	2.5	0.75	0.0966	5.25
800JR300-43	33	1.89	8.0	3.0	0.75	0.0428	5.25
800JR300-54	50	2.35	8.0	3.0	0.75	0.0538	5.25
800JR300-68	50	2.94	8.0	3.0	0.75	0.0677	5.25
800JR300-97	50	4.11	8.0	3.0	0.75	0.0966	5.25
1000JR200-43	33	1.84	10.0	2.0	0.75	0.0428	7.00
1000JR200-54	50	2.30	10.0	2.0	0.75	0.0538	7.00
1000JR200-68	50	2.86	10.0	2.0	0.75	0.0677	7.00
1000JR200-97	50	4.01	10.0	2.0	0.75	0.0966	7.00
1000JR250-43	33	1.99	10.0	2.5	0.75	0.0428	7.00
1000JR250-54	50	2.49	10.0	2.5	0.75	0.0538	7.00
1000JR250-68	50	3.11	10.0	2.5	0.75	0.0677	7.00
1000JR250-97	50	4.35	10.0	2.5	0.75	0.0966	7.00
1000JR300-43	33	2.15	10.0	3.0	0.75	0.0428	7.00
1000JR300-54	50	2.68	10.0	3.0	0.75	0.0538	7.00
1000JR300-68	50	3.35	10.0	3.0	0.75	0.0677	7.00
1000JR300-97	50	4.70	10.0	3.0	0.75	0.0966	7.00
1200JR200-54	50	2.50	12.0	2.0	0.75	0.0538	9.00
1200JR200-68	50	3.12	12.0	2.0	0.75	0.0677	9.00
1200JR200-97	50	4.38	12.0	2.0	0.75	0.0966	9.00
1200JR250-54	50	2.69	12.0	2.5	0.75	0.0538	9.00
1200JR250-68	50	3.37	12.0	2.5	0.75	0.0677	9.00
1200JR250-97	50	4.72	12.0	2.5	0.75	0.0966	9.00
1200JR300-54	50	2.89	12.0	3.0	0.75	0.0538	9.00
1200JR300-68	50	3.61	12.0	3.0	0.75	0.0677	9.00
1200JR300-97	50	5.07	12.0	3.0	0.75	0.0966	9.00
1400JR200-54	50	2.89	14.0	2.0	0.75	0.0538	9.00
1400JR200-68	50	3.61	14.0	2.0	0.75	0.0677	9.00
1400JR200-97	50	5.07	14.0	2.0	0.75	0.0966	9.00
1400JR250-54	50	3.08	14.0	2.5	0.75	0.0538	9.00
1400JR250-68	50	3.85	14.0	2.5	0.75	0.0677	9.00
1400JR250-97	50	5.41	14.0	2.5	0.75	0.0966	9.00
1400JR300-54	50	3.27	14.0	3.0	0.75	0.0538	9.00
1400JR300-68	50	4.09	14.0	3.0	0.75	0.0677	9.00
1400JR300-97	50	5.76	14.0	3.0	0.75	0.0966	9.00

For SI: 1 inch = 25.4 mm, 1 plf = 14.5939 N/m.

¹Web height is measured from outside face to outside face of flanges.

TABLE 2—MAXIMUM FLOOR JOIST SPANS (ft-in)

SECTION IDENTIFICATION	15 PSF DEAD LOAD PLUS 40 PSF LIVE LOAD						40 PSF DEAD LOAD PLUS 40 PSF LIVE LOAD						15 PSF DEAD LOAD PLUS 60 PSF LIVE LOAD					
	L/360			L/480			L/360			L/480			L/360			L/480		
	Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.		
	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
800JR200-43	16-7	14-5	11-4	16-1	14-5	11-4	13-10	11-7	7-10	13-10	11-7	7-10	14-4	12-4	8-4	14-1	12-4	8-4
800JR200-54	19-0	17-4	15-1	17-4	15-8	13-8	17-4	15-8	12-0	17-4	15-8	12-0	16-7	15-1	12-10	15-1	13-8	12-0
800JR200-68	20-5	18-7	16-2	18-7	16-11	14-8	18-7	16-11	14-8	18-7	16-11	14-8	17-11	16-2	14-2	16-2	14-8	12-11
800JR200-97	22-8	20-7	18-0	20-7	18-8	16-5	20-7	18-8	16-5	20-7	18-8	16-5	19-10	18-0	15-8	18-0	16-5	14-4
800JR250-43	17-2	14-11	11-4	16-10	14-11	11-4	14-4	11-7	7-10	14-4	11-7	7-10	14-10	12-5	8-4	14-8	12-5	8-4
800JR250-54	19-10	18-0	15-10	18-0	16-5	14-4	18-0	16-5	12-0	18-0	16-5	12-0	17-4	15-10	12-10	15-10	14-4	12-6
800JR250-68	21-5	19-5	17-0	19-5	17-7	15-5	19-5	17-7	15-4	19-5	17-7	15-4	18-8	17-0	14-10	17-0	15-5	13-6
800JR250-97	23-10	21-7	18-11	21-7	19-7	17-1	21-7	19-7	17-1	21-7	19-7	17-1	20-10	18-11	16-6	18-11	17-1	15-0
800JR300-43	17-8	15-4	11-4	17-4	15-4	11-4	14-7	11-7	7-10	14-7	11-7	7-10	15-1	12-5	8-4	15-1	12-5	8-4
800JR300-54	20-4	18-5	16-1	18-5	16-10	14-7	18-5	16-10	12-0	18-5	16-10	12-0	17-8	16-1	12-10	16-1	14-7	12-10
800JR300-68	22-0	20-0	17-6	20-0	18-2	15-11	20-0	18-2	15-6	20-0	18-2	15-6	19-2	17-6	15-4	17-6	15-11	13-11
800JR300-97	24-8	22-6	19-7	22-6	20-5	17-10	22-6	20-5	17-10	22-6	20-5	17-10	21-7	19-7	17-2	19-7	17-10	15-7
1000JR200-43	19-2	16-7	13-2	19-1	16-7	13-2	15-11	13-7	9-1	15-11	13-7	9-1	16-6	14-4	9-8	16-6	14-4	9-8
1000JR200-54	22-7	20-6	17-11	20-6	18-7	16-4	20-6	18-7	14-0	20-6	18-7	14-0	19-8	17-11	14-11	17-11	16-4	14-2
1000JR200-68	24-2	22-0	19-2	22-0	20-0	17-6	22-0	20-0	17-6	22-0	20-0	17-6	21-2	19-2	16-10	19-2	17-6	15-4
1000JR200-97	26-11	24-6	21-5	24-6	22-2	19-5	24-6	22-2	19-5	24-6	22-2	19-5	23-6	21-5	18-8	21-5	19-5	17-0
1000JR250-43	19-11	17-2	13-2	19-10	17-2	13-2	16-6	13-7	9-1	16-6	13-7	9-1	17-0	14-6	9-8	17-0	14-6	9-8
1000JR250-54	23-6	21-4	18-7	21-4	19-5	16-11	21-4	19-2	14-0	21-4	19-2	14-0	20-6	18-7	14-11	18-7	16-11	14-10
1000JR250-68	25-4	23-0	20-1	23-0	20-11	18-2	23-0	20-11	17-7	23-0	20-11	17-7	22-1	20-1	17-6	20-1	18-2	15-11
1000JR250-97	28-1	25-7	22-4	25-7	23-2	20-4	25-7	23-2	20-4	25-7	23-2	20-4	24-7	22-4	19-6	22-4	20-4	17-8
1000JR300-43	20-4	17-7	13-2	20-4	17-7	13-2	16-10	13-7	9-1	16-10	13-7	9-1	17-5	14-6	9-8	17-5	14-6	9-8
1000JR300-54	24-0	21-10	19-0	21-10	19-10	17-4	21-10	19-5	14-0	21-10	19-5	14-0	20-11	19-0	14-11	19-0	17-4	14-11
1000JR300-68	26-0	23-7	20-7	23-7	21-5	18-8	23-7	21-5	17-11	23-7	21-5	17-11	22-8	20-7	18-0	20-7	18-8	16-5
1000JR300-97	29-2	26-7	23-2	26-7	24-1	21-1	26-7	24-1	21-1	26-7	24-1	21-1	25-6	23-2	20-4	23-2	21-1	18-5
1200JR200-54	25-11	23-6	19-7	23-6	21-4	18-7	23-6	20-2	13-6	23-6	20-2	13-6	22-7	20-6	14-5	20-6	18-7	14-5
1200JR200-68	27-10	25-2	22-0	25-2	22-11	20-0	25-2	22-11	19-7	25-2	22-11	19-7	24-4	22-0	19-4	22-0	20-0	17-6
1200JR200-97	30-11	28-0	24-6	28-0	25-6	22-4	28-0	25-6	22-4	28-0	25-6	22-4	27-0	24-6	21-5	24-6	22-4	19-5
1200JR250-54	26-10	24-5	19-7	24-5	22-2	19-5	24-5	20-2	13-6	24-5	20-2	13-6	23-6	21-4	14-5	21-4	19-5	14-5
1200JR250-68	28-11	26-4	23-0	26-4	23-11	20-11	26-4	23-11	19-8	26-4	23-11	19-8	25-4	23-0	20-0	23-0	20-11	18-2
1200JR250-97	32-2	29-2	25-6	29-2	26-7	23-2	29-2	26-7	23-2	29-2	26-7	23-2	28-1	25-6	22-4	25-6	23-2	20-4
1200JR300-54	27-5	24-11	19-7	24-11	22-7	19-7	24-11	20-2	13-6	24-11	20-2	13-6	23-11	21-7	14-5	21-8	19-10	14-5
1200JR300-68	29-8	27-0	23-6	27-0	24-6	21-5	27-0	24-6	20-0	27-0	24-6	20-0	25-11	23-6	20-7	23-6	21-5	18-8
1200JR300-97	33-5	30-4	26-6	30-4	27-7	24-1	30-4	27-7	24-1	30-4	27-7	24-1	29-2	26-6	23-2	26-6	24-1	21-0
1400JR200-54	29-10	27-1	23-8	27-1	24-7	21-6	27-1	24-4	16-7	27-1	24-4	16-7	26-1	23-8	17-8	23-8	21-6	17-8
1400JR200-68	32-1	29-1	25-5	29-1	26-6	23-1	29-1	26-6	22-6	29-1	26-6	22-6	28-0	25-5	22-2	25-5	23-1	20-2
1400JR200-97	35-8	32-5	28-4	32-5	29-6	25-8	32-5	29-6	25-8	32-5	29-6	25-8	31-2	28-4	24-10	28-4	25-8	22-6
1400JR250-54	30-10	28-0	24-1	28-0	25-6	22-2	28-0	24-6	16-7	28-0	24-6	16-7	26-11	24-6	17-8	24-6	22-2	17-8
1400JR250-68	33-2	30-2	26-5	30-2	27-5	24-0	30-2	27-5	22-7	30-2	27-5	22-7	29-0	26-5	23-0	26-5	24-0	20-11
1400JR250-97	37-1	33-8	29-5	33-8	30-7	26-8	33-8	30-7	26-8	33-8	30-7	26-8	32-5	29-5	25-8	29-5	26-8	23-4
1400JR300-54	31-5	28-6	24-1	28-6	25-11	22-7	28-6	24-10	16-7	28-6	24-10	16-7	27-5	24-11	17-8	24-11	22-7	17-8
1400JR300-68	34-0	30-11	27-0	30-11	28-1	24-6	30-11	28-1	22-11	30-11	28-1	22-11	29-8	27-0	23-7	27-0	24-6	21-5
1400JR300-97	38-4	34-10	30-5	34-10	31-7	27-7	34-10	31-7	27-7	34-10	31-7	27-7	33-6	30-5	26-7	30-5	27-7	24-1

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

TABLE 2—MAXIMUM FLOOR JOIST SPANS (ft-in) (Continued)

SECTION IDENTIFICATION	40 PSF DEAD LOAD PLUS 60 PSF LIVE LOAD						15 PSF DEAD LOAD PLUS 125 PSF LIVE LOAD						40 PSF DEAD LOAD PLUS 125 PSF LIVE LOAD					
	L/360			L/480			L/360			L/480			L/360			L/480		
	Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.			Single Span Joist Spacing (in) o.c.		
	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
800JR200-43	12-4	9-4	6-2	12-4	9-4	6-2	8-11	6-7	4-5	8-11	6-7	4-5	7-6	5-7	3-10	7-6	5-7	3-10
800JR200-54	16-1	14-5	9-7	15-1	13-8	9-7	13-0	10-4	6-11	11-10	10-4	6-11	11-7	8-8	5-10	11-7	8-8	5-10
800JR200-68	17-2	15-8	13-6	16-2	14-8	12-11	14-0	12-8	10-7	12-8	11-6	10-1	14-0	12-8	9-0	12-8	11-6	9-0
800JR200-97	19-1	17-5	15-2	18-0	16-5	14-4	15-6	14-1	12-4	14-1	12-10	11-2	15-6	14-1	12-4	14-1	12-10	11-2
800JR250-43	12-5	9-4	6-2	12-5	9-4	6-2	8-11	6-7	4-5	8-11	6-7	4-5	7-6	5-7	3-10	7-6	5-7	3-10
800JR250-54	16-8	14-5	9-7	15-10	14-4	9-7	13-7	10-4	6-11	12-4	10-4	6-11	11-7	8-8	5-10	11-7	8-8	5-10
800JR250-68	18-0	16-5	13-8	17-0	15-5	13-6	14-7	13-4	10-7	13-4	12-1	10-6	14-7	13-0	9-0	12-8	11-6	9-0
800JR250-97	20-0	18-2	15-11	18-11	17-1	15-0	16-2	14-10	12-11	14-10	13-5	11-8	16-2	14-10	12-11	14-10	13-5	11-8
800JR300-43	12-5	9-4	6-2	12-5	9-4	6-2	8-11	6-7	4-5	8-11	6-7	4-5	7-6	5-7	3-10	7-6	5-7	3-10
800JR300-54	17-1	14-5	9-7	16-1	14-5	9-7	13-8	10-4	6-11	12-7	10-4	6-11	11-7	8-8	5-10	11-7	8-8	5-10
800JR300-68	18-7	16-11	13-11	17-6	15-11	13-11	15-0	13-8	10-7	13-8	12-5	10-7	15-0	13-4	9-0	13-8	12-5	9-0
800JR300-97	20-11	19-0	16-7	19-7	17-10	15-7	16-11	15-5	13-5	15-5	14-0	12-2	16-11	15-5	13-5	15-5	14-0	12-2
1000JR200-43	14-4	10-11	7-2	14-4	10-11	7-2	10-4	7-10	5-2	10-4	7-10	5-2	8-10	6-7	4-5	8-10	6-7	4-4
1000JR200-54	19-0	16-10	11-2	17-11	16-4	11-2	15-5	12-0	8-0	14-0	12-0	8-0	13-7	10-2	6-10	13-7	10-2	6-10
1000JR200-68	20-5	18-7	15-7	19-2	17-6	15-4	16-7	15-1	12-4	15-1	13-8	12-0	16-7	14-11	10-6	15-1	13-8	10-6
1000JR200-97	22-8	20-7	18-0	21-5	19-5	17-0	18-5	16-8	14-7	16-8	15-2	13-4	18-5	16-8	14-4	16-8	15-2	13-4
1000JR250-43	14-6	10-11	7-2	14-6	10-11	7-2	10-4	7-10	5-2	10-4	7-10	5-2	8-10	6-7	4-5	8-10	6-7	4-5
1000JR250-54	19-10	16-10	11-2	18-7	16-10	11-2	16-0	12-0	8-0	14-7	12-0	8-0	13-7	10-2	6-10	13-7	10-2	6-10
1000JR250-68	21-4	19-4	15-10	20-1	18-2	15-10	17-4	15-8	12-4	15-8	14-4	12-4	17-4	15-0	10-6	15-8	14-4	10-6
1000JR250-97	23-8	21-7	18-10	22-4	20-4	17-8	19-2	17-6	15-4	17-6	15-11	13-11	19-2	17-6	15-1	17-6	15-11	13-11
1000JR300-43	14-6	10-11	7-2	14-6	10-11	7-2	10-4	7-10	5-2	10-4	7-10	5-2	8-10	6-7	4-5	8-10	6-7	4-5
1000JR300-54	20-0	16-10	11-2	19-0	16-10	11-2	16-0	12-0	8-0	14-11	12-0	8-0	13-7	10-2	6-10	13-7	10-2	6-10
1000JR300-68	21-11	19-7	16-0	20-7	18-8	16-0	17-10	16-1	12-4	16-1	14-8	12-4	17-7	15-4	10-6	16-1	14-8	10-6
1000JR300-97	24-8	22-5	19-7	23-2	21-1	18-5	20-0	18-2	15-11	18-2	16-6	14-5	20-0	18-2	15-6	18-2	16-6	14-5
1200JR200-54	21-7	16-2	10-10	20-6	16-2	10-10	15-5	11-7	7-8	15-5	11-7	7-8	13-1	9-10	6-6	13-1	9-10	6-6
1200JR200-68	23-5	21-4	16-7	22-0	20-0	16-7	19-0	17-4	11-10	17-4	15-8	11-10	19-0	15-1	10-0	17-4	15-1	10-0
1200JR200-97	26-0	23-8	20-6	24-6	22-4	19-5	21-1	19-2	16-10	19-2	17-5	15-2	21-1	19-2	16-0	19-2	17-5	15-2
1200JR250-54	21-7	16-2	10-10	21-4	16-2	10-10	15-5	11-7	7-8	15-5	11-7	7-8	13-1	9-10	6-6	13-1	9-10	6-6
1200JR250-68	24-5	21-7	16-7	23-0	20-11	16-7	19-10	17-10	11-10	18-0	16-4	11-10	19-5	15-1	10-0	18-0	15-1	10-0
1200JR250-97	27-1	24-8	21-6	25-6	23-2	20-4	22-0	20-0	17-6	20-0	18-2	15-11	22-0	20-0	16-11	20-0	18-2	15-11
1200JR300-54	21-7	16-2	10-10	21-7	16-2	10-10	15-5	11-7	7-8	15-5	11-7	7-8	13-1	9-10	6-6	13-1	9-10	6-6
1200JR300-68	25-0	21-11	16-7	23-6	21-5	16-7	20-4	17-10	11-10	18-5	16-10	11-10	19-7	15-1	10-0	18-5	15-1	10-0
1200JR300-97	28-2	25-7	22-4	26-6	24-1	21-0	22-10	20-10	18-1	20-10	18-11	16-6	22-10	20-10	17-4	20-10	18-11	16-6
1400JR200-54	25-1	19-11	13-4	23-8	19-11	13-4	19-0	14-2	9-6	18-6	14-2	9-6	16-1	12-1	8-0	16-1	12-1	8-0
1400JR200-68	27-0	24-7	20-1	25-5	23-1	20-1	21-11	19-11	14-10	19-11	18-1	14-10	21-11	18-11	12-7	19-11	18-1	12-7
1400JR200-97	30-1	27-5	23-7	28-4	25-8	22-6	24-5	22-2	19-5	22-2	20-2	17-7	24-5	22-2	18-5	22-2	20-2	17-7
1400JR250-54	25-4	19-11	13-4	24-6	19-11	13-4	19-0	14-2	9-6	19-0	14-2	9-6	16-1	12-1	8-0	16-1	12-1	8-0
1400JR250-68	28-0	24-10	20-2	26-5	24-0	20-2	22-8	20-8	14-10	20-8	18-10	14-10	22-4	18-11	12-7	20-8	18-10	12-7
1400JR250-97	31-4	28-5	24-10	29-5	26-8	23-4	25-4	23-0	20-1	23-0	20-11	18-4	25-4	23-0	19-5	23-0	20-11	18-4
1400JR300-54	25-7	19-11	13-4	24-11	19-11	13-4	19-0	14-2	9-6	19-0	14-2	9-6	16-1	12-1	8-0	16-1	12-1	8-0
1400JR300-68	28-8	25-1	20-6	27-0	24-6	20-6	23-4	21-1	14-10	21-1	19-2	14-10	22-7	18-11	12-7	21-1	18-11	12-7
1400JR300-97	32-4	29-5	25-5	30-5	27-7	24-1	26-2	23-10	20-10	23-10	21-7	18-11	26-2	23-10	19-10	23-10	21-7	18-11

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf)

SPAN, L (ft)	SECTION >	800JR200-43			800JR200-54			800JR200-68			800JR200-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
8	STRENGTH	155	116	78	240	180	120	370	278	185	617	463	309
	L/360	155	116	78	240	180	120	370	278	185	617	463	309
	L/480	155	116	78	240	180	120	370	278	185	617	463	309
9	STRENGTH	138	103	69	213	160	107	329	247	165	549	412	274
	L/360	138	103	69	213	160	107	329	247	165	549	412	274
	L/480	138	103	69	213	160	107	329	247	165	480	360	240
10	STRENGTH	124	93	62	192	144	96	296	222	148	494	370	247
	L/360	124	93	62	192	144	96	296	222	148	467	350	233
	L/480	124	93	62	192	144	96	256	192	128	350	263	175
11	STRENGTH	113	85	56	174	131	87	269	202	135	415	311	207
	L/360	113	85	56	174	131	87	256	192	128	351	263	175
	L/480	113	85	56	156	117	78	192	144	96	263	197	132
12	STRENGTH	103	78	52	160	120	80	247	185	123	348	261	174
	L/360	103	78	52	160	120	80	198	148	99	270	203	135
	L/480	97	73	48	120	90	60	148	111	74	203	152	101
13	STRENGTH	90	68	45	148	111	74	217	163	108	297	223	148
	L/360	90	68	45	126	94	63	155	117	78	213	159	106
	L/480	76	57	38	94	71	47	117	87	58	159	120	80
14	STRENGTH	78	58	39	137	103	69	187	140	94	256	192	128
	L/360	78	58	39	101	76	50	124	93	62	170	128	85
	L/480	61	46	31	76	57	38	93	70	47	128	96	64
15	STRENGTH	68	51	34	128	96	64	163	122	81	223	167	111
	L/360	66	50	33	82	61	41	101	76	51	138	104	69
	L/480	50	37	25	61	46	31	76	57	38	104	78	52
16	STRENGTH	60	45	30	112	84	56	143	107	72	196	147	98
	L/360	55	41	27	67	51	34	83	62	42	114	85	57
	L/480	41	31	20	51	38	25	62	47	31	85	64	43
17	STRENGTH	53	40	26	99	75	50	127	95	63	174	130	87
	L/360	45	34	23	56	42	28	69	52	35	95	71	48
	L/480	34	26	17	42	32	21	52	39	26	71	53	36
18	STRENGTH	47	35	24	89	66	44	113	85	57	155	116	77
	L/360	38	29	19	47	36	24	59	44	29	80	60	40
	L/480	29	22	14	36	27	18	44	33	22	60	45	30
19	STRENGTH	42	32	21	80	60	40	102	76	51	139	104	69
	L/360	33	24	16	40	30	20	50	37	25	68	51	34
	L/480	24	18	12	30	23	15	37	28	19	51	38	26
20	STRENGTH	38	29	19	72	54	36	92	69	46	125	94	63
	L/360	28	21	14	35	26	17	43	32	21	58	44	29
	L/480	21	16	10	26	19	13	32	24	16	44	33	22
21	STRENGTH	35	26	17	65	49	33	83	62	42	114	85	57
	L/360	24	18	12	30	22	15	37	28	18	50	38	25
	L/480	18	14	9	22	17	11	28	21	14	38	28	19
22	STRENGTH	31	24	16	59	44	30	76	57	38	104	78	52
	L/360	21	16	10	26	19	13	32	24	16	44	33	22
	L/480	16	12	8	19	15	10	24	18	12	33	25	16
23	STRENGTH	29	22	14	54	41	27	69	52	35	95	71	47
	L/360	18	14	9	23	17	11	28	21	14	38	29	19
	L/480	14	10	7	17	13	9	21	16	11	29	22	14
24	STRENGTH	26	20	13	50	37	25	64	48	32	87	65	44
	L/360	16	12	8	20	15	10	25	19	12	34	25	17
	L/480	12	9	6	15	11	7	19	14	9	25	19	13
25	STRENGTH	24	18	12	46	34	23	59	44	29	80	60	40
	L/360	14	11	7	18	13	9	22	16	11	30	22	15
	L/480	11	8	5	13	10	7	16	12	8	22	17	11
26	STRENGTH	23	17	11	42	32	21	54	41	27	74	56	37
	L/360	13	10	6	16	12	8	19	15	10	27	20	13
	L/480	10	7	5	12	9	6	15	11	7	20	15	10
27	STRENGTH	21	16	10	39	30	20	50	38	25	69	52	34
	L/360	11	9	6	14	11	7	17	13	9	24	18	12
	L/480	9	6	4	11	8	5	13	10	7	18	13	9
28	STRENGTH	19	15	10	37	27	18	47	35	23	64	48	32
	L/360	10	8	5	13	9	6	16	12	8	21	16	11
	L/480	8	6	4	9	7	5	12	9	6	16	12	8
29	STRENGTH	18	14	9	34	26	17	44	33	22	60	45	30
	L/360	9	7	5	11	8	6	14	10	7	19	14	10
	L/480	7	5	3	8	6	4	10	8	5	14	11	7
30	STRENGTH	17	13	8	32	24	16	41	31	20	56	42	28
	L/360	8	6	4	10	8	5	13	9	6	17	13	9
	L/480	6	5	3	8	6	4	9	7	5	13	10	6

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	800JR250-43			800JR250-54			800JR250-68			800JR250-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
8	STRENGTH	155	116	78	240	180	120	370	278	185	617	463	309
	L/360	155	116	78	240	180	120	370	278	185	617	463	309
	L/480	155	116	78	240	180	120	370	278	185	617	463	309
9	STRENGTH	138	103	69	213	160	107	329	247	165	549	412	274
	L/360	138	103	69	213	160	107	329	247	165	549	412	274
	L/480	138	103	69	213	160	107	329	247	165	549	412	274
10	STRENGTH	124	93	62	192	144	96	296	222	148	494	370	247
	L/360	124	93	62	192	144	96	296	222	148	494	370	247
	L/480	124	93	62	192	144	96	293	220	146	402	302	201
11	STRENGTH	113	85	56	174	131	87	269	202	135	449	337	224
	L/360	113	85	56	174	131	87	269	202	135	449	337	224
	L/480	113	85	56	174	131	87	220	165	110	302	227	151
12	STRENGTH	103	78	52	160	120	80	247	185	123	396	297	198
	L/360	103	78	52	160	120	80	226	169	113	310	233	155
	L/480	103	78	52	136	102	68	169	127	85	233	175	116
13	STRENGTH	95	72	48	148	111	74	222	166	111	337	253	169
	L/360	95	72	48	142	107	71	178	133	89	244	183	122
	L/480	95	72	48	107	80	53	133	100	67	183	137	92
14	STRENGTH	83	63	42	137	103	69	191	143	96	291	218	145
	L/360	83	63	42	114	85	57	142	107	71	195	147	98
	L/480	69	52	34	85	64	43	107	80	53	147	110	73
15	STRENGTH	73	54	36	128	96	64	166	125	83	253	190	127
	L/360	73	54	36	93	69	46	116	87	58	159	119	79
	L/480	56	42	28	69	52	35	87	65	43	119	89	60
16	STRENGTH	64	48	32	115	86	58	146	110	73	223	167	111
	L/360	61	46	31	76	57	38	95	71	48	131	98	65
	L/480	46	35	23	57	43	29	71	54	36	98	74	49
17	STRENGTH	57	42	28	102	76	51	130	97	65	197	148	99
	L/360	51	38	26	64	48	32	79	60	40	109	82	55
	L/480	38	29	19	48	36	24	60	45	30	82	61	41
18	STRENGTH	50	38	25	91	68	45	116	87	58	176	132	88
	L/360	43	32	22	54	40	27	67	50	33	92	69	46
	L/480	32	24	16	40	30	20	50	38	25	69	52	34
19	STRENGTH	45	34	23	82	61	41	104	78	52	158	118	79
	L/360	37	28	18	46	34	23	57	43	28	78	59	39
	L/480	28	21	14	34	26	17	43	32	21	59	44	29
20	STRENGTH	41	31	20	74	55	37	94	70	47	142	107	71
	L/360	31	24	16	39	29	20	49	37	24	67	50	34
	L/480	24	18	12	29	22	15	37	27	18	50	38	25
21	STRENGTH	37	28	19	67	50	33	85	64	42	129	97	65
	L/360	27	20	14	34	25	17	42	32	21	58	43	29
	L/480	20	15	10	25	19	13	32	24	16	43	33	22
22	STRENGTH	34	25	17	61	46	30	77	58	39	118	88	59
	L/360	24	18	12	29	22	15	37	27	18	50	38	25
	L/480	18	13	9	22	17	11	27	21	14	38	28	19
23	STRENGTH	31	23	15	56	42	28	71	53	35	108	81	54
	L/360	21	16	10	26	19	13	32	24	16	44	33	22
	L/480	16	12	8	19	14	10	24	18	12	33	25	17
24	STRENGTH	28	21	14	51	38	26	65	49	33	99	74	49
	L/360	18	14	9	23	17	11	28	21	14	39	29	19
	L/480	14	10	7	17	13	8	21	16	11	29	22	15
25	STRENGTH	26	20	13	47	35	24	60	45	30	91	68	46
	L/360	16	12	8	20	15	10	25	19	12	34	26	17
	L/480	12	9	6	15	11	8	19	14	9	26	19	13
26	STRENGTH	24	18	12	44	33	22	55	42	28	84	63	42
	L/360	14	11	7	18	13	9	22	17	11	31	23	15
	L/480	11	8	5	13	10	7	17	12	8	23	17	11
27	STRENGTH	22	17	11	40	30	20	51	39	26	78	59	39
	L/360	13	10	6	16	12	8	20	15	10	27	20	14
	L/480	10	7	5	12	9	6	15	11	7	20	15	10
28	STRENGTH	21	16	10	38	28	19	48	36	24	73	55	36
	L/360	11	9	6	14	11	7	18	13	9	24	18	12
	L/480	9	6	4	11	8	5	13	10	7	18	14	9
29	STRENGTH	19	15	10	35	26	18	45	33	22	68	51	34
	L/360	10	8	5	13	10	6	16	12	8	22	16	11
	L/480	8	6	4	10	7	5	12	9	6	16	12	8
30	STRENGTH	18	14	9	33	25	16	42	31	21	63	47	32
	L/360	9	7	5	12	9	6	14	11	7	20	15	10
	L/480	7	5	3	9	7	4	11	8	5	15	11	7

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	800JR300-43			800JR300-54			800JR300-68			800JR300-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
8	STRENGTH	155	116	78	240	180	120	370	278	185	617	463	309
	L/360	155	116	78	240	180	120	370	278	185	617	463	309
	L/480	155	116	78	240	180	120	370	278	185	617	463	309
9	STRENGTH	138	103	69	213	160	107	329	247	165	549	412	274
	L/360	138	103	69	213	160	107	329	247	165	549	412	274
	L/480	138	103	69	213	160	107	329	247	165	549	412	274
10	STRENGTH	124	93	62	192	144	96	296	222	148	494	370	247
	L/360	124	93	62	192	144	96	296	222	148	494	370	247
	L/480	124	93	62	192	144	96	319	239	160	454	341	227
11	STRENGTH	113	85	56	174	131	87	269	202	135	449	337	224
	L/360	113	85	56	174	131	87	269	202	135	449	337	224
	L/480	113	85	56	174	131	87	240	180	120	341	256	171
12	STRENGTH	103	78	52	160	120	80	247	185	123	412	309	206
	L/360	103	78	52	160	120	80	246	185	123	350	263	175
	L/480	103	78	52	145	109	73	185	139	92	263	197	131
13	STRENGTH	95	72	48	148	111	74	228	171	114	358	268	179
	L/360	95	72	48	148	111	74	194	145	97	276	207	138
	L/480	94	70	47	114	86	57	145	109	73	207	155	103
14	STRENGTH	87	66	44	137	103	69	197	148	99	308	231	154
	L/360	87	66	44	122	91	61	155	116	78	221	166	110
	L/480	75	56	38	91	69	46	116	87	58	166	124	83
15	STRENGTH	76	57	38	128	96	64	172	129	86	269	201	134
	L/360	76	57	38	99	74	50	126	95	63	179	135	90
	L/480	61	46	30	74	56	37	95	71	47	135	101	67
16	STRENGTH	67	50	33	118	88	59	151	113	75	236	177	118
	L/360	67	50	33	82	61	41	104	78	52	148	111	74
	L/480	50	38	25	61	46	31	78	58	39	111	83	55
17	STRENGTH	59	44	30	104	78	52	134	100	67	209	157	105
	L/360	56	42	28	68	51	34	87	65	43	123	92	62
	L/480	42	31	21	51	38	26	65	49	32	92	69	46
18	STRENGTH	53	40	26	93	70	47	119	89	60	186	140	93
	L/360	47	35	24	57	43	29	73	55	36	104	78	52
	L/480	35	26	18	43	32	22	55	41	27	78	58	39
19	STRENGTH	47	36	24	83	63	42	107	80	54	167	126	84
	L/360	40	30	20	49	37	24	62	47	31	88	66	44
	L/480	30	23	15	37	27	18	47	35	23	66	50	33
20	STRENGTH	43	32	21	75	57	38	97	72	48	151	113	76
	L/360	34	26	17	42	31	21	53	40	27	76	57	38
	L/480	26	19	13	31	24	16	40	30	20	57	43	28
21	STRENGTH	39	29	19	68	51	34	88	66	44	137	103	69
	L/360	30	22	15	36	27	18	46	34	23	65	49	33
	L/480	22	17	11	27	20	14	34	26	17	49	37	25
22	STRENGTH	35	27	18	62	47	31	80	60	40	125	94	62
	L/360	26	19	13	31	24	16	40	30	20	57	43	28
	L/480	19	14	10	24	18	12	30	22	15	43	32	21
23	STRENGTH	32	24	16	57	43	28	73	55	37	114	86	57
	L/360	23	17	11	28	21	14	35	26	17	50	37	25
	L/480	17	13	8	21	15	10	26	20	13	37	28	19
24	STRENGTH	30	22	15	52	39	26	67	50	34	105	79	52
	L/360	20	15	10	24	18	12	31	23	15	44	33	22
	L/480	15	11	7	18	14	9	23	17	12	33	25	16
25	STRENGTH	27	21	14	48	36	24	62	46	31	97	73	48
	L/360	18	13	9	21	16	11	27	20	14	39	29	19
	L/480	13	10	7	16	12	8	20	15	10	29	22	15
26	STRENGTH	25	19	13	45	33	22	57	43	29	89	67	45
	L/360	16	12	8	19	14	10	24	18	12	34	26	17
	L/480	12	9	6	14	11	7	18	14	9	26	19	13
27	STRENGTH	24	18	12	41	31	21	53	40	27	83	62	41
	L/360	14	10	7	17	13	9	22	16	11	31	23	15
	L/480	10	8	5	13	10	6	16	12	8	23	17	12
28	STRENGTH	22	16	11	38	29	19	49	37	25	77	58	39
	L/360	13	9	6	15	11	8	19	15	10	28	21	14
	L/480	9	7	5	11	9	6	15	11	7	21	16	10
29	STRENGTH	20	15	10	36	27	18	46	34	23	72	54	36
	L/360	11	8	6	14	10	7	17	13	9	25	19	12
	L/480	8	6	4	10	8	5	13	10	7	19	14	9
30	STRENGTH	19	14	10	33	25	17	43	32	21	67	50	34
	L/360	10	8	5	12	9	6	16	12	8	22	17	11
	L/480	8	6	4	9	7	5	12	9	6	17	13	8

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	1000JR200-43			1000JR200-54			1000JR200-68			1000JR200-97			SPAN, L (ft)	SECTION >	1000JR200-43			1000JR200-54			1000JR200-68			1000JR200-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					
		12	16	24	12	16	24	12	16	24	12	16	24			12	16	24	12	16	24	12	16	24	12	16	24
8	STRENGTH	181	136	91	280	210	140	432	324	216	827	620	413	22	STRENGTH	42	31	21	79	59	40	101	76	51	139	104	69
	L/360	181	136	91	280	210	140	432	324	216	827	620	413		L/360	35	26	17	43	32	22	53	40	27	73	55	37
	L/480	181	136	91	280	210	140	432	324	216	827	620	413		L/480	26	20	13	32	24	16	40	30	20	55	41	28
9	STRENGTH	161	121	80	249	187	124	384	288	192	735	551	367	23	STRENGTH	38	29	19	72	54	36	93	69	46	127	95	63
	L/360	161	121	80	249	187	124	384	288	192	735	551	367		L/360	31	23	15	38	28	19	47	35	23	64	48	32
	L/480	161	121	80	249	187	124	384	288	192	735	551	367		L/480	23	17	11	28	21	14	35	26	18	48	36	24
10	STRENGTH	145	109	72	224	168	112	346	259	173	661	496	331	24	STRENGTH	35	26	18	67	50	33	85	64	42	117	87	58
	L/360	145	109	72	224	168	112	346	259	173	661	496	331		L/360	27	20	13	33	25	17	41	31	21	57	42	28
	L/480	145	109	72	224	168	112	346	259	173	586	439	293		L/480	20	15	10	25	19	12	31	23	15	42	32	21
11	STRENGTH	132	99	66	204	153	102	314	236	157	555	416	277	25	STRENGTH	32	24	16	61	46	31	78	59	39	107	81	54
	L/360	132	99	66	204	153	102	314	236	157	555	416	277		L/360	24	18	12	29	22	15	36	27	18	50	38	25
	L/480	132	99	66	204	153	102	314	236	157	440	330	220		L/480	18	13	9	22	17	11	27	21	14	38	28	19
12	STRENGTH	121	91	60	187	140	93	288	216	144	466	350	233	26	STRENGTH	30	23	15	57	43	28	72	54	36	99	74	50
	L/360	121	91	60	187	140	93	288	216	144	466	350	233		L/360	21	16	11	26	20	13	32	24	16	44	33	22
	L/480	121	91	60	187	140	93	247	185	124	339	254	170		L/480	16	12	8	20	15	10	24	18	12	33	25	17
13	STRENGTH	111	84	56	172	129	86	266	199	133	397	298	199	27	STRENGTH	28	21	14	53	39	26	67	50	34	92	69	46
	L/360	111	84	56	172	129	86	259	194	130	356	267	178		L/360	19	14	9	23	18	12	29	22	14	40	30	20
	L/480	111	84	56	157	118	79	194	146	97	267	200	133		L/480	14	11	7	18	13	9	22	16	11	30	22	15
14	STRENGTH	103	78	52	160	120	80	247	185	123	343	257	171	28	STRENGTH	26	19	13	49	37	24	62	47	31	86	64	43
	L/360	103	78	52	160	120	80	208	156	104	285	214	142		L/360	17	13	8	21	16	10	26	19	13	36	27	18
	L/480	102	76	51	126	94	63	156	117	78	214	160	107		L/480	13	10	6	16	12	8	19	15	10	27	20	13
15	STRENGTH	90	68	45	149	112	75	218	163	109	298	224	149	29	STRENGTH	24	18	12	46	34	23	58	44	29	80	60	40
	L/360	90	68	45	149	112	75	169	127	84	231	174	116		L/360	15	11	8	19	14	9	23	18	12	32	24	16
	L/480	83	62	41	102	77	51	127	95	63	174	130	87		L/480	11	9	6	14	11	7	18	13	9	24	18	12
16	STRENGTH	79	59	40	140	105	70	191	143	96	262	197	131	30	STRENGTH	23	17	11	43	32	21	54	41	27	75	56	37
	L/360	79	59	40	112	84	56	139	104	70	191	143	95		L/360	14	10	7	17	13	9	21	16	11	29	22	14
	L/480	68	51	34	84	63	42	104	78	52	143	107	72		L/480	10	8	5	13	10	6	16	12	8	22	16	11
17	STRENGTH	70	53	35	132	99	66	169	127	85	232	174	116	31	STRENGTH	21	16	11	40	30	20	51	38	25	70	52	35
	L/360	70	53	35	94	70	47	116	87	58	159	119	80		L/360	12	9	6	15	12	8	19	14	10	26	20	13
	L/480	57	43	28	70	53	35	87	65	43	119	89	60		L/480	9	7	5	12	9	6	14	11	7	20	15	10
18	STRENGTH	63	47	31	118	89	59	151	113	76	207	155	104	32	STRENGTH	20	15	10	37	28	19	48	36	24	66	49	33
	L/360	63	47	31	79	59	39	98	73	49	134	100	67		L/360	11	9	6	14	11	7	17	13	9	24	18	12
	L/480	48	36	24	59	44	30	73	55	37	100	75	50		L/480	9	6	4	11	8	5	13	10	7	18	13	9
19	STRENGTH	56	42	28	106	80	53	136	102	68	186	139	93	33	STRENGTH	19	14	9	35	26	18	45	34	22	62	46	31
	L/360	54	41	27	67	50	34	83	62	42	114	85	57		L/360	10	8	5	13	10	6	16	12	8	22	16	11
	L/480	41	30	20	50	38	25	62	47	31	85	64	43		L/480	8	6	4	10	7	5	12	9	6	16	12	8
20	STRENGTH	51	38	25	96	72	48	122	92	61	168	126	84	34	STRENGTH	18	13	9	33	25	17	42	32	21	58	44	29
	L/360	46	35	23	58	43	29	71	53	36	98	73	49		L/360	9	7	5	12	9	6	14	11	7	20	15	10
	L/480	35	26	17	43	32	22	53	40	27	73	55	37		L/480	7	5	4	9	7	4	11	8	5	15	11	7
21	STRENGTH	46	35	23	87	65	43	111	83	55	152	114	76	35	STRENGTH	17	12	8	31	23	16	40	30	20	55	41	27
	L/360	40	30	20	50	37	25	61	46	31	84	63	42		L/360	9	7	4	11	8	5	13	10	7	18	14	9
	L/480	30	23	15	37	28	19	46	35	23	63	47	32		L/480	7	5	3	8	6	4	10	7	5	14	10	7

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	1000JR250-43			1000JR250-54			1000JR250-68			1000JR250-97			SPAN, L (ft)	SECTION >	1000JR250-43			1000JR250-54			1000JR250-68			1000JR250-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					
		12	16	24	12	16	24	12	16	24	12	16	24			12	16	24	12	16	24	12	16	24	12	16	24
8	STRENGTH	181	136	91	280	210	140	432	324	216	827	620	413	22	STRENGTH	45	34	22	81	61	40	103	77	51	156	117	78
	L/360	181	136	91	280	210	140	432	324	216	827	620	413		L/360	39	29	20	49	36	24	61	46	30	84	63	42
	L/480	181	136	91	280	210	140	432	324	216	827	620	413		L/480	29	22	15	36	27	18	46	34	23	63	47	31
9	STRENGTH	161	121	80	249	187	124	384	288	192	735	551	367	23	STRENGTH	41	31	20	74	56	37	94	71	47	143	107	72
	L/360	161	121	80	249	187	124	384	288	192	735	551	367		L/360	34	26	17	43	32	21	53	40	27	73	55	37
	L/480	161	121	80	249	187	124	384	288	192	735	551	367		L/480	26	19	13	32	24	16	40	30	20	55	41	27
10	STRENGTH	145	109	72	224	168	112	346	259	173	661	496	331	24	STRENGTH	38	28	19	68	51	34	86	65	43	131	99	66
	L/360	145	109	72	224	168	112	346	259	173	661	496	331		L/360	30	23	15	37	28	19	47	35	23	64	48	32
	L/480	145	109	72	224	168	112	346	259	173	661	496	331		L/480	23	17	11	28	21	14	35	26	18	48	36	24
11	STRENGTH	132	99	66	204	153	102	314	236	157	601	451	301	25	STRENGTH	35	26	17	63	47	31	80	60	40	121	91	61
	L/360	132	99	66	204	153	102	314	236	157	601	451	301		L/360	27	20	13	33	25	17	41	31	21	57	43	28
	L/480	132	99	66	204	153	102	314	236	157	502	376	251		L/480	20	15	10	25	19	12	31	23	16	43	32	21
12	STRENGTH	121	91	60	187	140	93	288	216	144	525	394	263	26	STRENGTH	32	24	16	58	43	29	74	55	37	112	84	56
	L/360	121	91	60	187	140	93	288	216	144	515	386	258		L/360	24	18	12	29	22	15	37	28	18	51	38	25
	L/480	121	91	60	187	140	93	281	210	140	386	290	193		L/480	18	13	9	22	17	11	28	21	14	38	28	19
13	STRENGTH	111	84	56	172	129	86	266	199	133	448	336	224	27	STRENGTH	30	22	15	54	40	27	68	51	34	104	78	52
	L/360	111	84	56	172	129	86	266	199	133	405	304	203		L/360	21	16	11	26	20	13	33	25	16	45	34	23
	L/480	111	84	56	172	129	86	221	165	110	304	228	152		L/480	16	12	8	20	15	10	25	18	12	34	25	17
14	STRENGTH	103	78	52	160	120	80	247	185	123	386	290	193	28	STRENGTH	28	21	14	50	37	25	63	48	32	97	72	48
	L/360	103	78	52	160	120	80	236	177	118	324	243	162		L/360	19	14	9	24	18	12	29	22	15	41	30	20
	L/480	103	78	52	141	106	71	177	132	88	243	182	122		L/480	14	11	7	18	13	9	22	17	11	30	23	15
15	STRENGTH	96	72	48	149	112	75	221	166	111	336	252	168	29	STRENGTH	26	19	13	47	35	23	59	44	30	90	67	45
	L/360	96	72	48	149	112	75	191	144	96	264	198	132		L/360	17	13	9	21	16	11	26	20	13	36	27	18
	L/480	93	69	46	115	86	57	144	108	72	198	148	99		L/480	13	10	6	16	12	8	20	15	10	27	21	14
16	STRENGTH	85	64	42	140	105	70	194	146	97	296	222	148	30	STRENGTH	24	18	12	44	33	22	55	41	28	84	63	42
	L/360	85	64	42	126	95	63	158	118	79	217	163	109		L/360	15	12	8	19	14	10	24	18	12	33	25	16
	L/480	76	57	38	95	71	47	118	89	59	163	122	81		L/480	12	9	6	14	11	7	18	13	9	25	19	12
17	STRENGTH	75	56	38	132	99	66	172	129	86	262	196	131	31	STRENGTH	23	17	11	41	31	20	52	39	26	79	59	39
	L/360	75	56	38	105	79	53	132	99	66	181	136	91		L/360	14	10	7	17	13	9	22	16	11	30	22	15
	L/480	64	48	32	79	59	39	99	74	49	136	102	68		L/480	10	8	5	13	10	7	16	12	8	22	17	11
18	STRENGTH	67	50	33	121	91	60	154	115	77	234	175	117	32	STRENGTH	21	16	11	38	29	19	49	36	24	74	55	37
	L/360	67	50	33	89	67	44	111	83	55	153	114	76		L/360	13	10	6	16	12	8	20	15	10	27	20	14
	L/480	54	40	27	67	50	33	83	62	42	114	86	57		L/480	10	7	5	12	9	6	15	11	7	20	15	10
19	STRENGTH	60	45	30	109	81	54	138	103	69	210	157	105	33	STRENGTH	20	15	10	36	27	18	46	34	23	69	52	35
	L/360	60	45	30	75	57	38	94	71	47	130	97	65		L/360	12	9	6	14	11	7	18	13	9	25	19	12
	L/480	46	34	23	57	42	28	71	53	35	97	73	49		L/480	9	7	4	11	8	5	13	10	7	19	14	9
20	STRENGTH	54	41	27	98	73	49	124	93	62	189	142	95	34	STRENGTH	19	14	9	34	25	17	43	32	22	65	49	33
	L/360	52	39	26	65	49	32	81	61	40	111	83	56		L/360	11	8	5	13	10	7	16	12	8	23	17	11
	L/480	39	29	20	49	36	24	61	45	30	83	63	42		L/480	8	6	4	10	7	5	12	9	6	17	13	8
21	STRENGTH	49	37	25	89	67	44	113	85	56	172	129	86	35	STRENGTH	18	13	9	32	24	16	41	30	20	62	46	31
	L/360	45	34	22	56	42	28	70	52	35	96	72	48		L/360	10	7	5	12	9	6	15	11	8	21	16	10
	L/480	34	25	17	42	31	21	52	39	26	72	54	36		L/480	7	5	4	9	7	5	11	8	6	16	12	8

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	1000JR300-43			1000JR300-54			1000JR300-68			1000JR300-97			SPAN, L (ft)	SECTION >	1000JR300-43			1000JR300-54			1000JR300-68			1000JR300-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					
		12	16	24	12	16	24	12	16	24	12	16	24			12	16	24	12	16	24	12	16	24	12	16	24
8	STRENGTH	181	136	91	280	210	140	432	324	216	827	620	413	22	STRENGTH	47	35	23	83	62	41	106	79	53	165	124	82
	L/360	181	136	91	280	210	140	432	324	216	827	620	413		L/360	42	32	21	52	39	26	66	49	33	94	70	47
	L/480	181	136	91	280	210	140	432	324	216	827	620	413		L/480	32	24	16	39	29	19	49	37	25	70	53	35
9	STRENGTH	161	121	80	249	187	124	384	288	192	735	551	367	23	STRENGTH	43	32	21	76	57	38	97	73	48	151	113	75
	L/360	161	121	80	249	187	124	384	288	192	735	551	367		L/360	37	28	19	45	34	23	58	43	29	82	62	41
	L/480	161	121	80	249	187	124	384	288	192	735	551	367		L/480	28	21	14	34	25	17	43	32	22	62	46	31
10	STRENGTH	145	109	72	224	168	112	346	259	173	661	496	331	24	STRENGTH	39	30	20	69	52	35	89	67	44	138	104	69
	L/360	145	109	72	224	168	112	346	259	173	661	496	331		L/360	33	25	16	40	30	20	51	38	25	72	54	36
	L/480	145	109	72	224	168	112	346	259	173	661	496	331		L/480	25	18	12	30	22	15	38	29	19	54	41	27
11	STRENGTH	132	99	66	204	153	102	314	236	157	601	451	301	25	STRENGTH	36	27	18	64	48	32	82	61	41	128	96	64
	L/360	132	99	66	204	153	102	314	236	157	601	451	301		L/360	29	22	14	35	26	18	45	34	22	64	48	32
	L/480	132	99	66	204	153	102	314	236	157	563	422	281		L/480	22	16	11	26	20	13	34	25	17	48	36	24
12	STRENGTH	121	91	60	187	140	93	288	216	144	551	413	276	26	STRENGTH	34	25	17	59	44	30	76	57	38	118	89	59
	L/360	121	91	60	187	140	93	288	216	144	551	413	276		L/360	26	19	13	31	24	16	40	30	20	57	43	28
	L/480	121	91	60	187	140	93	288	216	144	434	325	217		L/480	19	14	10	24	18	12	30	22	15	43	32	21
13	STRENGTH	111	84	56	172	129	86	266	199	133	472	354	236	27	STRENGTH	31	23	16	55	41	27	70	53	35	109	82	55
	L/360	111	84	56	172	129	86	266	199	133	455	341	227		L/360	23	17	11	28	21	14	36	27	18	51	38	25
	L/480	111	84	56	172	129	86	239	179	120	341	256	171		L/480	17	13	9	21	16	11	27	20	13	38	29	19
14	STRENGTH	103	78	52	160	120	80	247	185	123	407	305	203	28	STRENGTH	29	22	14	51	38	26	65	49	33	102	76	51
	L/360	103	78	52	160	120	80	247	185	123	364	273	182		L/360	21	15	10	25	19	13	32	24	16	46	34	23
	L/480	103	78	52	151	113	75	192	144	96	273	205	137		L/480	15	12	8	19	14	9	24	18	12	34	26	17
15	STRENGTH	97	72	48	149	112	75	228	171	114	355	266	177	29	STRENGTH	27	20	13	48	36	24	61	46	30	95	71	47
	L/360	97	72	48	149	112	75	208	156	104	296	222	148		L/360	19	14	9	23	17	11	29	22	14	41	31	20
	L/480	97	72	48	123	92	61	156	117	78	222	167	111		L/480	14	10	7	17	13	8	22	16	11	31	23	15
16	STRENGTH	89	66	44	140	105	70	200	150	100	312	234	156	30	STRENGTH	25	19	13	44	33	22	57	43	28	89	66	44
	L/360	89	66	44	135	101	67	171	128	86	244	183	122		L/360	17	13	8	20	15	10	26	19	13	37	28	19
	L/480	83	62	41	101	76	50	128	96	64	183	137	91		L/480	13	9	6	15	11	8	19	15	10	28	21	14
17	STRENGTH	78	59	39	132	99	66	177	133	89	276	207	138	31	STRENGTH	24	18	12	42	31	21	53	40	27	83	62	42
	L/360	78	59	39	112	84	56	143	107	71	203	153	102		L/360	15	11	8	19	14	9	24	18	12	34	25	17
	L/480	69	52	34	84	63	42	107	80	53	153	114	76		L/480	11	9	6	14	10	7	18	13	9	25	19	13
18	STRENGTH	70	53	35	123	93	62	158	119	79	246	185	123	32	STRENGTH	22	17	11	39	29	20	50	37	25	78	58	39
	L/360	70	53	35	95	71	47	120	90	60	171	128	86		L/360	14	10	7	17	13	8	21	16	11	30	23	15
	L/480	58	44	29	71	53	35	90	68	45	128	96	64		L/480	10	8	5	13	9	6	16	12	8	23	17	11
19	STRENGTH	63	47	31	111	83	55	142	106	71	221	166	110	33	STRENGTH	21	16	10	37	28	18	47	35	24	73	55	37
	L/360	63	47	31	80	60	40	102	77	51	146	109	73		L/360	13	9	6	15	12	8	19	15	10	28	21	14
	L/480	49	37	25	60	45	30	77	57	38	109	82	55		L/480	9	7	5	12	9	6	15	11	7	21	16	10
20	STRENGTH	57	43	28	100	75	50	128	96	64	199	150	100	34	STRENGTH	20	15	10	35	26	17	44	33	22	69	52	35
	L/360	56	42	28	69	52	34	88	66	44	125	94	62		L/360	11	9	6	14	11	7	18	13	9	25	19	13
	L/480	42	32	21	52	39	26	66	49	33	94	70	47		L/480	9	6	4	11	8	5	13	10	7	19	14	10
21	STRENGTH	51	39	26	91	68	45	116	87	58	181	136	90	35	STRENGTH	19	14	9	33	24	16	42	31	21	65	49	33
	L/360	49	37	24	60	45	30	76	57	38	108	81	54		L/360	11	8	5	13	10	6	16	12	8	23	17	12
	L/480	37	27	18	45	33	22	57	43	28	81	61	40		L/480	8	6	4	10	7	5	12	9	6	17	13	9

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.
²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	1200JR200-54			1200JR200-68			1200JR200-97			SPAN, L (ft)	SECTION >	1200JR200-54			1200JR200-68			1200JR200-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					
		12	16	24	12	16	24	12	16	24			12	16	24	12	16	24	12	16	24
8	STRENGTH	270	202	135	414	311	207	786	589	393	22	STRENGTH	98	74	49	127	95	63	174	131	87
	L/360	270	202	135	414	311	207	786	589	393		L/360	65	49	32	80	60	40	110	83	55
	L/480	270	202	135	414	311	207	786	589	393		L/480	49	37	24	60	45	30	83	62	41
9	STRENGTH	240	180	120	368	276	184	698	524	349	23	STRENGTH	91	68	45	116	87	58	159	119	80
	L/360	240	180	120	368	276	184	698	524	349		L/360	57	43	28	70	53	35	97	73	48
	L/480	240	180	120	368	276	184	698	524	349		L/480	43	32	21	53	40	26	73	54	36
10	STRENGTH	216	162	108	332	249	166	629	471	314	24	STRENGTH	83	63	42	106	80	53	146	110	73
	L/360	216	162	108	332	249	166	629	471	314		L/360	50	38	25	62	46	31	85	64	43
	L/480	216	162	108	332	249	166	629	471	314		L/480	38	28	19	46	35	23	64	48	32
11	STRENGTH	196	147	98	301	226	151	571	429	286	25	STRENGTH	77	58	38	98	74	49	135	101	67
	L/360	196	147	98	301	226	151	571	429	286		L/360	44	33	22	55	41	27	75	56	38
	L/480	196	147	98	301	226	151	571	429	286		L/480	33	25	17	41	31	21	56	42	28
12	STRENGTH	180	135	90	276	207	138	524	393	262	26	STRENGTH	71	53	36	91	68	45	125	93	62
	L/360	180	135	90	276	207	138	524	393	262		L/360	39	30	20	49	37	24	67	50	33
	L/480	180	135	90	276	207	138	511	383	255		L/480	30	22	15	37	27	18	50	38	25
13	STRENGTH	166	124	83	255	191	128	484	363	242	27	STRENGTH	66	49	33	84	63	42	116	87	58
	L/360	166	124	83	255	191	128	484	363	242		L/360	35	26	18	44	33	22	60	45	30
	L/480	166	124	83	255	191	128	402	301	201		L/480	26	20	13	33	24	16	45	34	22
14	STRENGTH	154	116	77	237	178	118	430	322	215	28	STRENGTH	61	46	31	78	59	39	107	81	54
	L/360	154	116	77	237	178	118	429	322	214		L/360	32	24	16	39	29	20	54	40	27
	L/480	154	116	77	234	176	117	322	241	161		L/480	24	18	12	29	22	15	40	30	20
15	STRENGTH	144	108	72	221	166	111	374	281	187	29	STRENGTH	57	43	29	73	55	36	100	75	50
	L/360	144	108	72	221	166	111	349	261	174		L/360	28	21	14	35	26	18	48	36	24
	L/480	144	108	72	221	166	111	261	196	131		L/480	21	16	11	26	20	13	36	27	18
16	STRENGTH	135	101	67	207	155	104	329	247	165	30	STRENGTH	53	40	27	68	51	34	94	70	47
	L/360	135	101	67	207	155	104	287	215	144		L/360	26	19	13	32	24	16	44	33	22
	L/480	127	95	63	157	118	78	215	162	108		L/480	19	14	10	24	18	12	33	25	16
17	STRENGTH	127	95	63	195	146	98	292	219	146	31	STRENGTH	50	37	25	64	48	32	88	66	44
	L/360	127	95	63	174	131	87	239	180	120		L/360	23	17	12	29	22	14	39	30	20
	L/480	106	79	53	131	98	65	180	135	90		L/480	17	13	9	22	16	11	30	22	15
18	STRENGTH	120	90	60	184	138	92	260	195	130	32	STRENGTH	47	35	23	60	45	30	82	62	41
	L/360	119	89	59	147	110	73	202	151	101		L/360	21	16	11	26	20	13	36	27	18
	L/480	89	67	44	110	83	55	151	113	76		L/480	16	12	8	20	15	10	27	20	13
19	STRENGTH	114	85	57	170	127	85	233	175	117	33	STRENGTH	44	33	22	56	42	28	77	58	39
	L/360	101	76	50	125	94	62	172	129	86		L/360	19	14	10	24	18	12	33	25	16
	L/480	76	57	38	94	70	47	129	96	64		L/480	14	11	7	18	13	9	25	18	12
20	STRENGTH	108	81	54	153	115	77	211	158	105	34	STRENGTH	42	31	21	53	40	27	73	55	36
	L/360	86	65	43	107	80	54	147	110	74		L/360	18	13	9	22	16	11	30	22	15
	L/480	65	49	32	80	60	40	110	83	55		L/480	13	10	7	16	12	8	22	17	11
21	STRENGTH	103	77	51	139	104	70	191	143	96	35	STRENGTH	39	29	20	50	38	25	69	52	34
	L/360	75	56	37	92	69	46	127	95	64		L/360	16	12	8	20	15	10	27	21	14
	L/480	56	42	28	69	52	35	95	71	48		L/480	12	9	6	15	11	7	21	15	10

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	1200JR250-54			1200JR250-68			1200JR250-97			SPAN, L (ft)	SECTION >	1200JR250-54			1200JR250-68			1200JR250-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24			12	16	24	12	16	24	12	16	24
8	STRENGTH	270	202	135	414	311	207	786	589	393	22	STRENGTH	98	74	49	128	96	64	195	146	98
	L/360	270	202	135	414	311	207	786	589	393		L/360	73	55	36	91	68	45	125	94	63
	L/480	270	202	135	414	311	207	786	589	393		L/480	55	41	27	68	51	34	94	70	47
9	STRENGTH	240	180	120	368	276	184	698	524	349	23	STRENGTH	93	69	46	117	88	59	179	134	89
	L/360	240	180	120	368	276	184	698	524	349		L/360	64	48	32	79	60	40	110	82	55
	L/480	240	180	120	368	276	184	698	524	349		L/480	48	36	24	60	45	30	82	62	41
10	STRENGTH	216	162	108	332	249	166	629	471	314	24	STRENGTH	85	64	42	108	81	54	164	123	82
	L/360	216	162	108	332	249	166	629	471	314		L/360	56	42	28	70	52	35	96	72	48
	L/480	216	162	108	332	249	166	629	471	314		L/480	42	31	21	52	39	26	72	54	36
11	STRENGTH	196	147	98	301	226	151	571	429	286	25	STRENGTH	78	59	39	99	75	50	151	113	76
	L/360	196	147	98	301	226	151	571	429	286		L/360	50	37	25	62	46	31	85	64	43
	L/480	196	147	98	301	226	151	571	429	286		L/480	37	28	19	46	35	23	64	48	32
12	STRENGTH	180	135	90	276	207	138	524	393	262	26	STRENGTH	72	54	36	92	69	46	140	105	70
	L/360	180	135	90	276	207	138	524	393	262		L/360	44	33	22	55	41	28	76	57	38
	L/480	180	135	90	276	207	138	524	393	262		L/480	33	25	17	41	31	21	57	43	28
13	STRENGTH	166	124	83	255	191	128	484	363	242	27	STRENGTH	67	50	34	85	64	43	130	97	65
	L/360	166	124	83	255	191	128	484	363	242		L/360	39	29	20	49	37	25	68	51	34
	L/480	166	124	83	255	191	128	455	341	228		L/480	29	22	15	37	28	18	51	38	25
14	STRENGTH	154	116	77	237	178	118	449	337	225	28	STRENGTH	62	47	31	79	59	40	120	90	60
	L/360	154	116	77	237	178	118	449	337	225		L/360	35	26	18	44	33	22	61	46	30
	L/480	154	116	77	237	178	118	365	273	182		L/480	26	20	13	33	25	17	46	34	23
15	STRENGTH	144	108	72	221	166	111	419	314	210	29	STRENGTH	58	44	29	74	55	37	112	84	56
	L/360	144	108	72	221	166	111	395	296	198		L/360	32	24	16	40	30	20	55	41	27
	L/480	144	108	72	215	161	107	296	222	148		L/480	24	18	12	30	22	15	41	31	21
16	STRENGTH	135	101	67	207	155	104	369	277	184	30	STRENGTH	54	41	27	69	52	34	105	79	52
	L/360	135	101	67	207	155	104	326	244	163		L/360	29	21	14	36	27	18	49	37	25
	L/480	135	101	67	177	133	89	244	183	122		L/480	21	16	11	27	20	13	37	28	19
17	STRENGTH	127	95	63	195	146	98	327	245	163	31	STRENGTH	51	38	25	65	48	32	98	74	49
	L/360	127	95	63	195	146	98	271	204	136		L/360	26	19	13	32	24	16	45	34	22
	L/480	118	89	59	148	111	74	204	153	102		L/480	19	15	10	24	18	12	34	25	17
18	STRENGTH	120	90	60	184	138	92	292	219	146	32	STRENGTH	48	36	24	61	45	30	92	69	46
	L/360	120	90	60	166	124	83	229	172	114		L/360	24	18	12	30	22	15	41	31	20
	L/480	100	75	50	124	93	62	172	129	86		L/480	18	13	9	22	17	11	31	23	15
19	STRENGTH	114	85	57	172	129	86	262	196	131	33	STRENGTH	45	34	22	57	43	29	87	65	43
	L/360	113	85	56	141	106	70	194	146	97		L/360	22	16	11	27	20	13	37	28	19
	L/480	85	63	42	106	79	53	146	109	73		L/480	16	12	8	20	15	10	28	21	14
20	STRENGTH	108	81	54	155	116	78	236	177	118	34	STRENGTH	42	32	21	54	40	27	82	61	41
	L/360	97	73	48	121	91	60	167	125	83		L/360	20	15	10	25	18	12	34	25	17
	L/480	73	54	36	91	68	45	125	94	63		L/480	15	11	7	18	14	9	25	19	13
21	STRENGTH	103	77	51	141	106	70	214	161	107	35	STRENGTH	40	30	20	51	38	25	77	58	39
	L/360	84	63	42	104	78	52	144	108	72		L/360	18	14	9	23	17	11	31	23	16
	L/480	63	47	31	78	59	39	108	81	54		L/480	14	10	7	17	13	8	23	17	12

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	1200JR300-54			1200JR300-68			1200JR300-97			SPAN, L (ft)	SECTION >	1200JR300-54			1200JR300-68			1200JR300-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24			12	16	24	12	16	24	12	16	24
8	STRENGTH	270	202	135	414	311	207	786	589	393	22	STRENGTH	98	74	49	132	99	66	205	154	102
	L/360	270	202	135	414	311	207	786	589	393		L/360	77	58	39	98	74	49	140	105	70
	L/480	270	202	135	414	311	207	786	589	393		L/480	58	43	29	74	55	37	105	79	53
9	STRENGTH	240	180	120	368	276	184	698	524	349	23	STRENGTH	94	70	47	121	90	60	187	141	94
	L/360	240	180	120	368	276	184	698	524	349		L/360	68	51	34	86	64	43	123	92	61
	L/480	240	180	120	368	276	184	698	524	349		L/480	51	38	25	64	48	32	92	69	46
10	STRENGTH	216	162	108	332	249	166	629	471	314	24	STRENGTH	87	65	43	111	83	55	172	129	86
	L/360	216	162	108	332	249	166	629	471	314		L/360	59	45	30	76	57	38	108	81	54
	L/480	216	162	108	332	249	166	629	471	314		L/480	45	33	22	57	42	28	81	61	40
11	STRENGTH	196	147	98	301	226	151	571	429	286	25	STRENGTH	80	60	40	102	77	51	159	119	79
	L/360	196	147	98	301	226	151	571	429	286		L/360	53	39	26	67	50	33	95	72	48
	L/480	196	147	98	301	226	151	571	429	286		L/480	39	30	20	50	38	25	72	54	36
12	STRENGTH	180	135	90	276	207	138	524	393	262	26	STRENGTH	74	55	37	94	71	47	147	110	73
	L/360	180	135	90	276	207	138	524	393	262		L/360	47	35	23	59	45	30	85	64	42
	L/480	180	135	90	276	207	138	524	393	262		L/480	35	26	18	45	33	22	64	48	32
13	STRENGTH	166	124	83	255	191	128	484	363	242	27	STRENGTH	68	51	34	87	66	44	136	102	68
	L/360	166	124	83	255	191	128	484	363	242		L/360	42	31	21	53	40	27	76	57	38
	L/480	166	124	83	255	191	128	484	363	242		L/480	31	24	16	40	30	20	57	43	28
14	STRENGTH	154	116	77	237	178	118	449	337	225	28	STRENGTH	64	48	32	81	61	41	127	95	63
	L/360	154	116	77	237	178	118	449	337	225		L/360	37	28	19	48	36	24	68	51	34
	L/480	154	116	77	237	178	118	408	306	204		L/480	28	21	14	36	27	18	51	38	25
15	STRENGTH	144	108	72	221	166	111	419	314	210	29	STRENGTH	59	44	30	76	57	38	118	88	59
	L/360	144	108	72	221	166	111	419	314	210		L/360	34	25	17	43	32	21	61	46	31
	L/480	144	108	72	221	166	111	331	248	166		L/480	25	19	13	32	24	16	46	34	23
16	STRENGTH	135	101	67	207	155	104	387	291	194	30	STRENGTH	55	42	28	71	53	35	110	83	55
	L/360	135	101	67	207	155	104	364	273	182		L/360	30	23	15	39	29	19	55	41	28
	L/480	135	101	67	191	143	96	273	205	137		L/480	23	17	11	29	22	15	41	31	21
17	STRENGTH	127	95	63	195	146	98	343	257	172	31	STRENGTH	52	39	26	66	50	33	103	77	52
	L/360	127	95	63	195	146	98	303	228	152		L/360	28	21	14	35	26	18	50	38	25
	L/480	126	94	63	159	120	80	228	171	114		L/480	21	16	10	26	20	13	38	28	19
18	STRENGTH	120	90	60	184	138	92	306	230	153	32	STRENGTH	49	37	24	62	47	31	97	73	48
	L/360	120	90	60	179	134	90	256	192	128		L/360	25	19	13	32	24	16	46	34	23
	L/480	106	79	53	134	101	67	192	144	96		L/480	19	14	9	24	18	12	34	26	17
19	STRENGTH	114	85	57	175	131	87	275	206	137	33	STRENGTH	46	34	23	59	44	29	91	68	46
	L/360	114	85	57	152	114	76	217	163	109		L/360	23	17	11	29	22	15	41	31	21
	L/480	90	67	45	114	86	57	163	122	82		L/480	17	13	9	22	16	11	31	23	16
20	STRENGTH	108	81	54	159	120	80	248	186	124	34	STRENGTH	43	32	22	55	41	28	86	64	43
	L/360	103	77	51	131	98	65	186	140	93		L/360	21	16	10	27	20	13	38	28	19
	L/480	77	58	39	98	73	49	140	105	70		L/480	16	12	8	20	15	10	28	21	14
21	STRENGTH	103	77	51	145	108	72	225	169	112	35	STRENGTH	41	31	20	52	39	26	81	61	40
	L/360	89	67	44	113	85	56	161	121	80		L/360	19	14	10	24	18	12	35	26	17
	L/480	67	50	33	85	63	42	121	91	60		L/480	14	11	7	18	14	9	26	20	13

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	1400JR200-54			1400JR200-68			1400JR200-97			SPAN, L (ft)	SECTION >	1400JR200-54			1400JR200-68			1400JR200-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24			12	16	24	12	16	24	12	16	24
10	STRENGTH	265	199	133	416	312	208	822	616	411	26	STRENGTH	93	70	46	120	90	60	165	124	83
	L/360	265	199	133	416	312	208	822	616	411		L/360	60	45	30	75	56	37	104	78	52
	L/480	265	199	133	416	312	208	822	616	411		L/480	45	34	23	56	42	28	78	58	39
11	STRENGTH	241	181	121	378	283	189	747	560	373	27	STRENGTH	86	65	43	111	83	55	153	115	77
	L/360	241	181	121	378	283	189	747	560	373		L/360	54	40	27	67	50	33	92	69	46
	L/480	241	181	121	378	283	189	747	560	373		L/480	40	30	20	50	38	25	69	52	35
12	STRENGTH	221	166	111	346	260	173	685	514	342	28	STRENGTH	80	60	40	103	77	52	143	107	71
	L/360	221	166	111	346	260	173	685	514	342		L/360	48	36	24	60	45	30	83	62	41
	L/480	221	166	111	346	260	173	685	514	342		L/480	36	27	18	45	34	22	62	47	31
13	STRENGTH	204	153	102	320	240	160	632	474	316	29	STRENGTH	75	56	37	96	72	48	133	100	66
	L/360	204	153	102	320	240	160	632	474	316		L/360	44	33	22	54	41	27	75	56	37
	L/480	204	153	102	320	240	160	621	466	311		L/480	33	24	16	41	30	20	56	42	28
14	STRENGTH	190	142	95	297	223	148	570	428	285	30	STRENGTH	70	52	35	90	67	45	124	93	62
	L/360	190	142	95	297	223	148	570	428	285		L/360	39	29	20	49	37	24	67	51	34
	L/480	190	142	95	297	223	148	497	373	249		L/480	29	22	15	37	27	18	51	38	25
15	STRENGTH	177	133	88	277	208	139	497	372	248	31	STRENGTH	65	49	33	84	63	42	116	87	58
	L/360	177	133	88	277	208	139	497	372	248		L/360	36	27	18	44	33	22	61	46	31
	L/480	177	133	88	277	208	139	404	303	202		L/480	27	20	13	33	25	17	46	34	23
16	STRENGTH	166	124	83	260	195	130	436	327	218	32	STRENGTH	61	46	31	79	59	39	109	82	55
	L/360	166	124	83	260	195	130	436	327	218		L/360	32	24	16	40	30	20	56	42	28
	L/480	166	124	83	241	181	121	333	250	167		L/480	24	18	12	30	23	15	42	31	21
17	STRENGTH	156	117	78	244	183	122	387	290	193	33	STRENGTH	58	43	29	74	56	37	103	77	51
	L/360	156	117	78	244	183	122	370	278	185		L/360	30	22	15	37	27	18	51	38	25
	L/480	156	117	78	201	151	101	278	208	139		L/480	22	17	11	27	21	14	38	28	19
18	STRENGTH	147	111	74	231	173	115	345	259	172	34	STRENGTH	54	41	27	70	52	35	97	72	48
	L/360	147	111	74	226	169	113	312	234	156		L/360	27	20	14	34	25	17	46	35	23
	L/480	136	102	68	169	127	85	234	176	117		L/480	20	15	10	25	19	13	35	26	17
19	STRENGTH	140	105	70	219	164	109	310	232	155	35	STRENGTH	51	38	26	66	49	33	91	68	46
	L/360	140	105	70	192	144	96	265	199	133		L/360	25	19	12	31	23	15	42	32	21
	L/480	116	87	58	144	108	72	199	149	100		L/480	19	14	9	23	17	12	32	24	16
20	STRENGTH	133	100	66	202	152	101	279	209	140	36	STRENGTH	48	36	24	62	47	31	86	65	43
	L/360	133	99	66	165	123	82	228	171	114		L/360	23	17	11	28	21	14	39	29	20
	L/480	99	75	50	123	93	62	171	128	85		L/480	17	13	9	21	16	11	29	22	15
21	STRENGTH	126	95	63	183	137	92	253	190	127	37	STRENGTH	46	34	23	59	44	30	82	61	41
	L/360	115	86	57	142	107	71	197	147	98		L/360	21	16	10	26	20	13	36	27	18
	L/480	86	64	43	107	80	53	147	111	74		L/480	16	12	8	20	15	10	27	20	13
22	STRENGTH	121	90	60	167	125	84	231	173	115	38	STRENGTH	44	33	22	56	42	28	77	58	39
	L/360	100	75	50	124	93	62	171	128	85		L/360	19	15	10	24	18	12	33	25	17
	L/480	75	56	37	93	70	46	128	96	64		L/480	15	11	7	18	14	9	25	19	12
23	STRENGTH	115	87	58	153	115	76	211	158	106	39	STRENGTH	41	31	21	53	40	27	73	55	37
	L/360	87	65	44	108	81	54	150	112	75		L/360	18	13	9	22	17	11	31	23	15
	L/480	65	49	33	81	61	41	112	84	56		L/480	13	10	7	17	12	8	23	17	12
24	STRENGTH	109	82	55	140	105	70	194	145	97	40	STRENGTH	39	29	20	51	38	25	70	52	35
	L/360	77	58	38	95	71	48	132	99	66		L/360	17	12	8	21	15	10	28	21	14
	L/480	58	43	29	71	54	36	99	74	49		L/480	12	9	6	15	12	8	21	16	11
25	STRENGTH	101	75	50	129	97	65	179	134	89	---	---	---	---	---	---	---	---	---	---	---
	L/360	68	51	34	84	63	42	116	87	58		---	---	---	---	---	---	---	---	---	---
	L/480	51	38	25	63	47	32	87	66	44		---	---	---	---	---	---	---	---	---	---

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	1400JR250-54			1400JR250-68			1400JR250-97			SPAN, L (ft)	SECTION >	1400JR250-54			1400JR250-68			1400JR250-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24			12	16	24	12	16	24	12	16	24
10	STRENGTH	265	199	133	416	312	208	822	616	411	26	STRENGTH	95	71	47	121	91	61	183	137	91
	L/360	265	199	133	416	312	208	822	616	411		L/360	67	50	33	84	63	42	116	87	58
	L/480	265	199	133	416	312	208	822	616	411		L/480	50	38	25	63	47	31	87	65	43
11	STRENGTH	241	181	121	378	283	189	747	560	373	27	STRENGTH	88	66	44	112	84	56	170	127	85
	L/360	241	181	121	378	283	189	747	560	373		L/360	60	45	30	75	56	37	103	78	52
	L/480	241	181	121	378	283	189	747	560	373		L/480	45	34	22	56	42	28	78	58	39
12	STRENGTH	221	166	111	346	260	173	685	514	342	28	STRENGTH	82	61	41	105	78	52	158	118	79
	L/360	221	166	111	346	260	173	685	514	342		L/360	53	40	27	67	50	33	93	70	46
	L/480	221	166	111	346	260	173	685	514	342		L/480	40	30	20	50	38	25	70	52	35
13	STRENGTH	204	153	102	320	240	160	632	474	316	29	STRENGTH	76	57	38	97	73	49	147	110	74
	L/360	204	153	102	320	240	160	632	474	316		L/360	48	36	24	60	45	30	83	63	42
	L/480	204	153	102	320	240	160	632	474	316		L/480	36	27	18	45	34	23	63	47	31
14	STRENGTH	190	142	95	297	223	148	587	440	293	30	STRENGTH	71	53	36	91	68	46	137	103	69
	L/360	190	142	95	297	223	148	587	440	293		L/360	43	33	22	54	41	27	75	57	38
	L/480	190	142	95	297	223	148	556	417	278		L/480	33	24	16	41	31	20	57	42	28
15	STRENGTH	177	133	88	277	208	139	548	411	274	31	STRENGTH	67	50	33	85	64	43	129	97	64
	L/360	177	133	88	277	208	139	548	411	274		L/360	39	30	20	49	37	25	68	51	34
	L/480	177	133	88	277	208	139	452	339	226		L/480	30	22	15	37	28	18	51	38	26
16	STRENGTH	166	124	83	260	195	130	483	362	242	32	STRENGTH	63	47	31	80	60	40	121	91	60
	L/360	166	124	83	260	195	130	483	362	242		L/360	36	27	18	45	34	22	62	47	31
	L/480	166	124	83	260	195	130	373	279	186		L/480	27	20	13	34	25	17	47	35	23
17	STRENGTH	156	117	78	244	183	122	428	321	214	33	STRENGTH	59	44	29	75	56	38	114	85	57
	L/360	156	117	78	244	183	122	414	311	207		L/360	33	24	16	41	31	20	57	42	28
	L/480	156	117	78	224	168	112	311	233	155		L/480	24	18	12	31	23	15	42	32	21
18	STRENGTH	147	111	74	231	173	115	382	286	191	34	STRENGTH	55	42	28	71	53	35	107	80	53
	L/360	147	111	74	231	173	115	349	262	174		L/360	30	22	15	37	28	19	52	39	26
	L/480	147	111	74	189	142	94	262	196	131		L/480	22	17	11	28	21	14	39	29	19
19	STRENGTH	140	105	70	219	164	109	343	257	171	35	STRENGTH	52	39	26	67	50	33	101	76	50
	L/360	140	105	70	214	161	107	297	222	148		L/360	27	21	14	34	26	17	47	36	24
	L/480	128	96	64	161	120	80	222	167	111		L/480	21	15	10	26	19	13	36	27	18
20	STRENGTH	133	100	66	205	154	102	309	232	155	36	STRENGTH	49	37	25	63	47	32	95	72	48
	L/360	133	100	66	184	138	92	254	191	127		L/360	25	19	13	31	24	16	44	33	22
	L/480	110	82	55	138	103	69	191	143	95		L/480	19	14	9	24	18	12	33	25	16
21	STRENGTH	126	95	63	186	139	93	280	210	140	37	STRENGTH	47	35	23	60	45	30	90	68	45
	L/360	126	95	63	159	119	79	220	165	110		L/360	23	17	12	29	22	14	40	30	20
	L/480	95	71	47	119	89	59	165	124	82		L/480	17	13	9	22	16	11	30	23	15
22	STRENGTH	121	90	60	169	127	85	256	192	128	38	STRENGTH	44	33	22	57	43	28	86	64	43
	L/360	110	83	55	138	103	69	191	143	96		L/360	21	16	11	27	20	13	37	28	19
	L/480	83	62	41	103	78	52	143	107	72		L/480	16	12	8	20	15	10	28	21	14
23	STRENGTH	115	87	58	155	116	77	234	175	117	39	STRENGTH	42	32	21	54	40	27	81	61	41
	L/360	96	72	48	121	91	60	167	125	84		L/360	20	15	10	25	19	12	34	26	17
	L/480	72	54	36	91	68	45	125	94	63		L/480	15	11	7	19	14	9	26	19	13
24	STRENGTH	111	83	55	142	107	71	215	161	107	40	STRENGTH	40	30	20	51	38	26	77	58	39
	L/360	85	64	42	106	80	53	147	110	74		L/360	18	14	9	23	17	11	32	24	16
	L/480	64	48	32	80	60	40	110	83	55		L/480	14	10	7	17	13	9	24	18	12
25	STRENGTH	102	77	51	131	98	66	198	148	99	---	---	---	---	---	---	---	---	---	---	
	L/360	75	56	38	94	70	47	130	98	65		---	---	---	---	---	---	---	---	---	---
	L/480	56	42	28	70	53	35	98	73	49		---	---	---	---	---	---	---	---	---	---

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

TABLE 3—MAXIMUM ALLOWABLE FLOOR JOIST LOADS^{1,2} (psf) (Continued)

SPAN, L (ft)	SECTION >	1400JR300-54			1400JR300-68			1400JR300-97			SPAN, L (ft)	SECTION >	1400JR300-54			1400JR300-68			1400JR300-97		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.					Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24			12	16	24	12	16	24	12	16	24
10	STRENGTH	265	199	133	416	312	208	822	616	411	26	STRENGTH	97	72	48	124	93	62	191	144	96
	L/360	265	199	133	416	312	208	822	616	411		L/360	71	53	35	89	67	45	128	96	64
	L/480	265	199	133	416	312	208	822	616	411		L/480	53	40	26	67	50	34	96	72	48
11	STRENGTH	241	181	121	378	283	189	747	560	373	27	STRENGTH	90	67	45	115	87	58	177	133	89
	L/360	241	181	121	378	283	189	747	560	373		L/360	63	47	31	80	60	40	114	86	57
	L/480	241	181	121	378	283	189	747	560	373		L/480	47	35	24	60	45	30	86	64	43
12	STRENGTH	221	166	111	346	260	173	685	514	342	28	STRENGTH	83	62	42	107	80	54	165	124	82
	L/360	221	166	111	346	260	173	685	514	342		L/360	56	42	28	72	54	36	102	77	51
	L/480	221	166	111	346	260	173	685	514	342		L/480	42	32	21	54	40	27	77	58	38
13	STRENGTH	204	153	102	320	240	160	632	474	316	29	STRENGTH	78	58	39	100	75	50	154	115	77
	L/360	204	153	102	320	240	160	632	474	316		L/360	51	38	25	64	48	32	92	69	46
	L/480	204	153	102	320	240	160	632	474	316		L/480	38	29	19	48	36	24	69	52	35
14	STRENGTH	190	142	95	297	223	148	587	440	293	30	STRENGTH	73	54	36	93	70	47	144	108	72
	L/360	190	142	95	297	223	148	587	440	293		L/360	46	34	23	58	44	29	83	62	42
	L/480	190	142	95	297	223	148	587	440	293		L/480	34	26	17	44	33	22	62	47	31
15	STRENGTH	177	133	88	277	208	139	548	411	274	31	STRENGTH	68	51	34	88	66	44	135	101	67
	L/360	177	133	88	277	208	139	548	411	274		L/360	42	31	21	53	40	26	76	57	38
	L/480	177	133	88	277	208	139	500	375	250		L/480	31	23	16	40	30	20	57	42	28
16	STRENGTH	166	124	83	260	195	130	505	379	253	32	STRENGTH	64	48	32	82	62	41	126	95	63
	L/360	166	124	83	260	195	130	505	379	253		L/360	38	28	19	48	36	24	69	51	34
	L/480	166	124	83	260	195	130	412	309	206		L/480	28	21	14	36	27	18	51	39	26
17	STRENGTH	156	117	78	244	183	122	448	336	224	33	STRENGTH	60	45	30	77	58	39	119	89	59
	L/360	156	117	78	244	183	122	448	336	224		L/360	34	26	17	44	33	22	63	47	31
	L/480	156	117	78	240	180	120	343	258	172		L/480	26	19	13	33	25	16	47	35	23
18	STRENGTH	147	111	74	231	173	115	399	299	200	34	STRENGTH	56	42	28	73	55	36	112	84	56
	L/360	147	111	74	231	173	115	386	289	193		L/360	32	24	16	40	30	20	57	43	29
	L/480	147	111	74	202	152	101	289	217	145		L/480	24	18	12	30	23	15	43	32	21
19	STRENGTH	140	105	70	219	164	109	358	269	179	35	STRENGTH	53	40	27	69	52	34	106	79	53
	L/360	140	105	70	219	164	109	328	246	164		L/360	29	22	14	37	28	18	52	39	26
	L/480	135	102	68	172	129	86	246	184	123		L/480	22	16	11	28	21	14	39	30	20
20	STRENGTH	133	100	66	208	156	104	323	243	162	36	STRENGTH	50	38	25	65	49	32	100	75	50
	L/360	133	100	66	197	147	98	281	211	141		L/360	27	20	13	34	25	17	48	36	24
	L/480	116	87	58	147	111	74	211	158	105		L/480	20	15	10	25	19	13	36	27	18
21	STRENGTH	126	95	63	191	143	95	293	220	147	37	STRENGTH	48	36	24	61	46	31	94	71	47
	L/360	126	95	63	170	127	85	243	182	121		L/360	24	18	12	31	23	16	44	33	22
	L/480	100	75	50	127	96	64	182	137	91		L/480	18	14	9	23	17	12	33	25	17
22	STRENGTH	121	90	60	174	130	87	267	200	134	38	STRENGTH	45	34	23	58	44	29	90	67	45
	L/360	116	87	58	148	111	74	211	158	106		L/360	23	17	11	29	21	14	41	31	20
	L/480	87	65	44	111	83	55	158	119	79		L/480	17	13	8	21	16	11	31	23	15
23	STRENGTH	115	87	58	159	119	80	245	183	122	39	STRENGTH	43	32	21	55	41	28	85	64	43
	L/360	102	76	51	129	97	65	185	139	92		L/360	21	16	10	27	20	13	38	28	19
	L/480	76	57	38	97	73	48	139	104	69		L/480	16	12	8	20	15	10	28	21	14
24	STRENGTH	111	83	55	146	110	73	225	168	112	40	STRENGTH	41	31	20	53	39	26	81	61	40
	L/360	90	67	45	114	85	57	163	122	81		L/360	19	15	10	25	18	12	35	26	18
	L/480	67	50	34	85	64	43	122	92	61		L/480	15	11	7	18	14	9	26	20	13
25	STRENGTH	104	78	52	135	101	67	207	155	103	---	---	---	---	---	---	---	---	---	---	
	L/360	79	59	40	101	75	50	144	108	72		---	---	---	---	---	---	---	---	---	---
	L/480	59	45	30	75	57	38	108	81	54		---	---	---	---	---	---	---	---	---	---

For SI: 1 inch = 25.4 mm, 1 psf = 4.882 kg/m².

¹Strength is the maximum allowable load based on the strength of the framing member with the compression flange fully braced.

²L/360 and L/480 is the maximum allowable load for the respective deflection limits based on the compression flange fully braced.

DIVISION: 05 00 00—METALS

Section: 05 10 00—Structural Metal Framing

Section: 05 20 00—Metal Joists

Section: 05 40 00—Cold-Formed Metal Framing

REPORT HOLDER:

WARE INDUSTRIES, INC. (DBA MarinoWARE®)

EVALUATION SUBJECT:

JOISTRITE® FRAMING

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that the JoistRite® Framing, described in ICC-ES evaluation report ESR-1741, has also been evaluated for compliance with the code noted below.

Applicable code editions:

- 2023 and 2020 *Florida Building Code—Building*

2.0 CONCLUSIONS

The JoistRite® Framing, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-1741, complies with the *Florida Building Code—Building*, provided the design requirements are determined in accordance with the *Florida Building Code—Building*. The installation requirements noted in ICC-ES evaluation report ESR-1741 for the 2021 and 2018 *International Building Code*® (IBC) meet the requirements of the *Florida Building Code—Building*.

Use of the JoistRite® Framing has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building*.

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 July 2023 and revised September 2023.

DIVISION: 05 00 00—METALS**Section: 05 10 00—Structural Metal Framing****Section: 05 20 00—Metal Joists****Section: 05 40 00—Cold-Formed Metal Framing****REPORT HOLDER:****WARE INDUSTRIES, INC. (DBA MarinoWARE®)****EVALUATION SUBJECT:****JOISTRITE® FRAMING****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that the JoistRite® Framing, described in ICC-ES evaluation report ESR-1741, has also been evaluated for compliance with the code noted below as adopted by the New York City Department of Building.

Applicable code editions:

- 2022 *New York City Building Code*

2.0 CONCLUSIONS

The JoistRite® Framing, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-1741, complies with the *New York City Building Code* Chapter 22, and are subject to conditions of use described in this supplement.

3.0 CONDITION OF USE

The JoistRite® Framing, described in the evaluation report must comply with all the following conditions:

- All applicable sections in the evaluation report ESR-1741.
- The design, installation, conditions of use and identification of the JoistRite® Framing are in accordance with the 2015 *International Building Code*® (2015 IBC) provisions noted in the evaluation report ESR-1741.
- The design, installation, and inspection are in accordance with additional requirements of the 2022 *New York City Building Code* Chapters 16, 17 and 22, as applicable.

This supplement expires concurrently with the evaluation report, reissued July 2023 and revised September 2023.