Floor Joist Load Tables

Table Notes

1 Loads are assumed to be uniformly distributed over entire span(s).

2 Load values are based on continuous support of the compression flange over the full length of the joist and the tension flange is laterally braced at a maximum spacing of 2.44 m.

3 Joists must be braced against rotation at all supports.

4 End shear and web crippling resistances are not reduced for punchouts.

5 End web crippling check is based on a 89 mm bearing length. Where allowable spans are followed by (*), web stiffeners are required at end supports.

6 Web stiffeners are required at interior supports.

Bridging Recommendations

Bracing components shall be designed based on Section C2 of S136-16 with the minimum required number of rows as shown below. Additional bridging rows may be required by design.

Span(m)	Minimum Number of Rows
up to 4.88	1 at mid span
4.88 to 7.32	2 at 1/3 point
7.32 to 9.75	3 at 1/4 point
9.75 to 12.2	4 at 1/5 point

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (kPa) with $K_\varphi = 0$

Strength - Factored Loads | **L/360 - Specified Loads**

Span (m)	Design Criteria	600S162-43 Spacing (mm)			600S162-54 Spacing (mm)			600S162-68 Spacing (mm)			600S162-97 Spacing (mm)			600S200-43 Spacing (mm)			600S200-54 Spacing (mm)			600S200-68 Spacing (mm)			600S200-97 Spacing (mm)		
		305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610
2.40	Strength	10.0*	7.5*	5.0*	17.8*	13.4*	8.9*		18.0*	12.0*			18.4	11.5*	8.6*	5.7*	20.3*	15.3*	10.2*		20.6*	13.7*			21.3*
	L/360	9.9	7.4	5.0	12.2	9.2	6.1		11.3	7.5			10.3	11.5	8.6	5.7	14.2	10.7	7.1		13.2	8.8			12.0
2.80	Strength	7.4	5.5	3.7	13.1*	9.8*	6.5*	17.7	13.2	8.8		20.3	13.5	8.4*	6.3*	4.2*	14.9*	11.2*	7.5*	20.2*	15.1*	10.1*		23.4	15.6
	L/360	6.2	4.7	3.1	7.70	5.8	3.9	9.5	7.1	4.7		9.7	6.5	7.2	5.4	3.6	8.9	6.7	4.5	11.0	8.3	5.5		11.3	7.6
3.20	Strength	5.6	4.2	2.8	10.0	7.5	5.0	13.5	10.1	6.8	20.7	15.5	10.3	6.5	4.8	3.2	11.4*	8.6*	5.7*	15.4	11.6	7.7	23.9	17.9	12.0
	L/360	4.2	3.1	2.1	5.2	3.9	2.6	6.4	4.8	3.2	8.7	6.5	4.3	4.8	3.6	2.4	6.0	4.5	3.0	7.4	5.6	3.7	10.1	7.6	5.1
3.60	Strength	4.5	3.3	2.2	7.9	5.9	4.0	10.7	8.0	5.3	16.3	12.3	8.2	5.1	3.8	2.6	9.0	6.8	4.5	12.2	9.1	6.1	18.9	14.2	9.5
	L/360	2.9	2.2	1.5	3.6	2.7	1.8	4.5	3.4	2.2	6.1	4.6	3.0	3.4	2.6	1.7	4.2	3.2	2.1	5.2	3.9	2.6	7.1	5.3	3.6
4.00	Strength	3.6	2.7	1.8	6.4	4.8	3.2	8.7	6.5	4.3	13.2	9.9	6.6	4.1	3.1	2.1	7.3	5.5	3.7	9.9	7.4	4.9	15.3	11.5	7.7
	L/360	2.1	1.6	1.1	2.6	2.0	1.3	3.3	2.4	1.6	4.4	3.3	2.2	2.5	1.9	1.2	3.1	2.3	1.5	3.8	2.8	1.9	5.2	3.9	2.6
4.40	Strength	3.0	2.2	1.5	5.3	4.0	2.6	7.2	5.4	3.6	10.9	8.2	5.5	3.4	2.6	1.7	6.1	4.5	3.0	8.2	6.1	4.1	12.7	9.5	6.3
	L/360	1.6	1.2	0.8	2.0	1.5	1.0	2.4	1.8	1.2	3.3	2.5	1.7	1.9	1.4	0.9	2.3	1.7	1.2	2.8	2.1	1.4	3.9	2.9	1.9
4.80	Strength	2.5	1.9	1.3	4.5	3.3	2.2	6.0	4.5	3.0	9.2	6.9	4.6	2.9	2.2	1.4	5.1	3.8	2.5	6.9	5.1	3.4	10.6	8.0	5.3
	L/360	1.2	0.9	0.6	1.5	1.1	0.8	1.9	1.4	0.9	2.6	1.9	1.3	1.4	1.1	0.7	1.8	1.3	0.9	2.2	1.6	1.1	3.0	2.3	1.5
5.20	Strength	2.1	1.6	1.1	3.8	2.8	1.9	5.1	3.8	2.6	7.8	5.9	3.9	2.4	1.8	1.2	4.3	3.2	2.2	5.8	4.4	2.9	9.1	6.8	4.5
	L/360	1.0	0.7	0.5	1.2	0.9	0.6	1.5	1.1	0.7	2.0	1.5	1.0	1.1	0.8	0.6	1.4	1.0	0.7	1.7	1.3	0.9	2.4	1.8	1.2
5.60	Strength	1.8	1.4		3.3	2.5	1.6	4.4	3.3	2.2	6.8	5.1	3.4	2.1	1.6		3.7	2.8	1.9	5.0	3.8	2.5	7.8	5.9	3.9
	L/360	0.8	0.6		1.0	0.7	0.5	1.2	0.9	0.6	1.6	1.2	0.8	0.9	0.7		1.1	0.8	0.6	1.4	1.0	0.7	1.9	1.4	0.9
6.00	Strength	1.6			2.9	2.1		3.8	2.9	1.9	5.9	4.4	2.9	1.8	1.4		3.3	2.4		4.4	3.3	2.2	6.8	5.1	3.4
	L/360	0.6			0.8	0.6		1.0	0.7	0.5	1.3	1.0	0.7	0.7	0.6		0.9	0.7		1.1	0.8	0.6	1.5	1.2	0.8
6.40	Strength	1.4			2.5	1.9		3.4	2.5		5.2	3.9	2.6	1.6			2.9	2.1		3.9	2.9		6.0	4.5	3.0
	L/360	0.5			0.6	0.5		0.8	0.6		1.1	0.8	0.5	0.6			0.7	0.6		0.9	0.7		1.3	0.9	0.6
6.80	Strength				2.2			3.0	2.2		4.6	3.4		1.4			2.5			3.4	2.6		5.3	4.0	2.6
	L/360				0.5			0.7	0.5		0.9	0.7		0.5			0.6			0.8	0.6		1.1	0.8	0.5
7.20	Strength							2.7			4.1	3.1					2.3			3.0	2.3		4.7	3.5	
	L/360							0.6			0.8	0.6					0.5			0.6	0.5		0.9	0.7	
7.60	Strength										3.7	2.7								2.7			4.2	3.2	
	L/360										0.6	0.5								0.6			0.8	0.6	
8.00	Strength										3.3												3.8	2.9	
	L/360										0.6												0.6	0.5	
8.40	Strength																						3.5		
	L/360																						0.6		
8.80	Strength																						3.2		
	L/360																						0.5		
9.20	Strength																								
	L/360																								

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 24 kPa and less than 0.5 kPa are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (kPa) with $K_\varphi = 0$

Strength - Factored Loads | **L/360 - Specified Loads**

Section		600S250-43			600S250-54			600S250-68			600S250-97			600S300-43			600S300-54			600S300-68			600S300-97		
Span	Design	Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)		
(m)	Criteria	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610
2.40	Strength	12.2*	9.1*	6.1*	21.4*	16.0*	10.7*		21.7*	14.5*			22.8*	12.6*	9.4*	6.3*	22.1*	16.6*	11.0*		22.6*	15.1*			
	L/360	13.1	9.8	6.5	15.7	11.7	7.8		15.0	10.0			13.9	14.1	10.6	7.1	16.8	12.6	8.4		16.2	10.8			
2.80	Strength	8.9*	6.7*	4.5*	15.7*	11.8*	7.8*	21.3*	16.0*	10.6*			16.8	9.2*	6.9*	4.6*	16.2*	12.2*	8.1*	22.1*	16.6*	11.1*			17.6*
	L/360	8.2	6.2	4.1	9.9	7.4	4.9	12.6	9.4	6.3			8.8	8.9	6.7	4.4	10.6	8.0	5.3	13.6	10.2	6.8			9.8
3.20	Strength	6.8	5.1	3.4	12.0*	9.0*	6.0*	16.3	12.2	8.2		19.3	12.8	7.1	5.3	3.5	12.4*	9.3*	6.2*	16.9*	12.7*	8.5*		20.2	13.5
	L/360	5.5	4.1	2.8	6.6	5.0	3.3	8.4	6.3	4.2		8.8	5.9	6.0	4.5	3.0	7.1	5.3	3.6	9.1	6.9	4.6		9.8	6.5
3.60	Strength	5.4	4.1	2.7	9.5	7.1	4.7	12.9	9.7	6.4	20.3	15.2	10.1	5.6	4.2	2.8	9.8*	7.4*	4.9*	13.4	1.0	6.7	21.3	16.0	10.7
	L/360	3.9	2.9	1.9	4.6	3.5	2.3	5.9	4.4	3.0	8.2	6.2	4.1	4.2	3.1	2.1	5.0	3.7	2.5	6.4	4.8	3.2	9.2	6.9	4.6
4.00	Strength	4.4	3.3	2.2	7.7	5.8	3.8	10.4	7.8	5.2	16.4	12.3	8.2	4.5	3.4	2.3	8.0	6.0	4.0	10.8	8.1	5.4	17.3	13.0	8.6
	L/360	2.8	2.1	1.4	3.4	2.5	1.7	4.3	3.2	2.2	6.0	4.5	3.0	3.0	2.3	1.5	3.6	2.7	1.8	4.7	3.5	2.3	6.7	5.0	3.4
4.40	Strength	3.6	2.7	1.8	6.4	4.8	3.2	8.6	6.5	4.3	13.6	10.2	6.8	3.7	2.8	1.9	6.6	4.9	3.3	9.0	6.7	4.5	14.3	10.7	7.1
	L/360	2.1	1.6	1.1	2.5	1.9	1.3	3.2	2.4	1.6	4.5	3.4	2.3	2.3	1.7	1.1	2.7	2.1	1.4	3.5	2.6	1.8	5.0	3.8	2.5
4.80	Strength	3.0	2.3	1.5	5.3	4.0	2.7	7.2	5.4	3.6	11.4	8.6	5.7	3.1	2.4	1.6	5.5	4.1	2.8	7.5	5.6	3.8	12.0	9.0	6.0
	L/360	1.6	1.2	0.8	2.0	1.5	1.0	2.5	1.9	1.2	3.5	2.6	1.7	1.8	1.3	0.9	2.1	1.6	1.1	2.7	2.0	1.4	3.9	2.9	1.9
5.20	Strength	2.6	1.9	1.3	4.6	3.4	2.3	6.2	4.6	3.1	9.7	7.3	4.9	2.7	2.0	1.3	4.7	3.5	2.4	6.4	4.8	3.2	10.2	7.7	5.1
	L/360	1.3	1.0	0.6	1.5	1.2	0.8	2.0	1.5	1.0	2.7	2.0	1.4	1.4	1.0	0.7	1.7	1.2	0.8	2.1	1.6	1.1	3.0	2.3	1.5
5.60	Strength	2.2	1.7	1.1	3.9	2.9	2.0	5.3	4.0	2.7	8.4	6.3	4.2	2.3	1.7	1.2	4.1	3.0	2.0	5.5	4.1	2.8	8.8	6.6	4.4
	L/360	1.0	0.8	0.5	1.2	0.9	0.6	1.6	1.2	0.8	2.2	1.6	1.1	1.1	0.8	0.6	1.3	1.0	0.7	1.7	1.3	0.9	2.4	1.8	1.2
6.00	Strength	1.9	1.5		3.4	2.6	1.7	4.6	3.5	2.3	7.3	5.5	3.7	2.0	1.5		3.5	2.7	1.8	4.8	3.6	2.4	7.7	5.8	3.8
	L/360	0.8	0.6		1.0	0.8	0.5	1.3	1.0	0.6	1.8	1.3	0.9	0.9	0.7		1.1	0.8	0.5	1.4	1.0	0.7	2.0	1.5	1.0
6.40	Strength	1.7	1.3		3.0	2.3		4.1	3.1	2.0	6.4	4.8	3.2	1.8	1.3		3.1	2.3		4.2	3.2	2.1	6.7	5.1	3.4
	L/360	0.7	0.5		0.8	0.6		1.1	0.8	0.5	1.5	1.1	0.7	0.7	0.6		0.9	0.7		1.1	0.9	0.6	1.6	1.2	0.8
6.80	Strength	1.5			2.7	2.0		3.6	2.7		5.7	4.3	2.8	1.6			2.8	2.1		3.8	2.8		6.0	4.5	3.0
	L/360	0.6			0.7	0.5		0.9	0.7		1.2	0.9	0.6	0.6			0.7	0.6		1.0	0.7		1.4	1.0	0.7
7.20	Strength	1.4			2.4			3.2	2.4		5.1	3.8	2.5	1.4			2.5			3.3	2.5		5.3	4.0	2.7
	L/360	0.5			0.6			0.7	0.6		1.0	0.8	0.5	0.5			0.6			0.8	0.6		1.1	0.9	0.6
7.60	Strength				2.1			2.9			4.6	3.4					2.2			3.0	2.3		4.8	3.6	2.4
	L/360				0.5			0.6			0.9	0.7					0.5			0.7	0.5		1.0	0.7	0.5
8.00	Strength							2.6			4.1	3.1								2.7			4.3	3.2	
	L/360							0.5			0.8	0.6								0.6			0.8	0.6	
8.40	Strength										3.7	2.8								2.5			3.9	2.9	
	L/360										0.6	0.5								0.5			0.7	0.5	
8.80	Strength										3.4												3.6		
	L/360										0.6												0.6		
9.20	Strength										3.1												3.3		
	L/360										0.5												0.6		

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 24 kPa and less than 0.5 kPa are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (kPa) with $K_\varphi = 0$

Strength - Factored Loads | **L/360 - Specified Loads**

Span (m)	Section / Design Criteria	800S250-43 Spacing (mm)			800S250-54 Spacing (mm)			800S250-68 Spacing (mm)			800S250-97 Spacing (mm)			800S300-43 Spacing (mm)			800S300-54 Spacing (mm)			800S300-68 Spacing (mm)			800S300-97 Spacing (mm)		
		305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610
2.40	Strength		12.2*	8.2*		21.9*	14.6*			20.0*					12.2*	8.2*			15.0*			20.7*			
	L/360		19.2	12.8		23.0	15.3			19.6					20.5	13.7			16.4			21.0			
2.80	Strength	12.1*	9.1*	6.1*	21.4*	16.1*	10.7*		22.0*	14.7*			23.6*	12.5*	9.4*	6.2*	22.1*	16.5*	11.0*		22.8*	15.2*			
	L/360	16.1	12.1	8.1	19.3	14.5	9.7		18.5	12.3			17.2	17.2	12.9	8.6	20.6	15.5	10.3		19.9	13.3			
3.20	Strength	9.3*	7.0*	4.6*	16.4*	12.3*	8.2*	22.5*	16.9*	11.3*			18.1*	9.6*	7.2*	4.8*	16.9*	12.7*	8.4*	23.3*	17.4*	11.6*			18.8*
	L/360	10.8	8.1	5.4	12.9	9.7	6.5	16.5	12.4	8.2			11.5	11.5	8.7	5.8	13.8	10.4	6.9	17.8	13.3	8.9			12.7
3.60	Strength	7.3*	5.5*	3.7*	13.0*	9.7*	6.5*	17.8*	13.3*	8.9*		21.5*	14.3*	7.6*	5.7*	3.8*	13.3*	10.0*	6.7*	18.4*	13.8*	9.2*		22.3*	14.9*
	L/360	7.6	5.7	3.8	9.1	6.8	4.5	11.6	8.7	5.8		12.2	8.1	8.1	6.1	4.1	9.7	7.3	4.9	12.5	9.4	6.2		13.4	8.9
4.00	Strength	5.9*	4.5*	3.0*	10.5*	7.9*	5.3*	14.4*	10.8*	7.2*	23.2	17.4	11.6	6.1*	4.6*	3.1*	10.8*	8.1*	5.4*	14.9*	11.2*	7.4*		18.1*	12.0*
	L/360	5.5	4.1	2.8	6.6	5.0	3.3	8.4	6.3	4.2	11.8	8.9	5.9	5.9	4.4	3.0	7.1	5.3	3.5	9.1	6.8	4.5		9.8	6.5
4.40	Strength	4.9	3.7	2.5	8.7*	6.5*	4.3*	11.9*	8.9*	6.0*	19.1	14.4	9.6	5.1*	3.8*	2.5*	8.9*	6.7*	4.5*	12.3*	9.2*	6.1*	19.9	14.9	10.0
	L/360	4.1	3.1	2.1	5.0	3.7	2.5	6.3	4.8	3.2	8.9	6.7	4.4	4.4	3.3	2.2	5.3	4.0	2.7	6.8	5.1	3.4	9.8	7.4	4.9
4.80	Strength	4.1	3.1	2.1	7.3*	5.5*	3.6*	1.0	7.5	5.0	16.1	12.1	8.0	4.2	3.2	2.1	7.5*	5.6*	3.8*	10.3	7.8	5.2	16.7	12.5	8.4
	L/360	3.2	2.4	1.6	3.8	2.9	1.9	4.9	3.7	2.4	6.8	5.1	3.4	3.4	2.6	1.7	4.1	3.1	2.0	5.3	3.9	2.6	7.6	5.7	3.8
5.20	Strength	3.5	2.6	1.8	6.2	4.7	3.1	8.5	6.4	4.3	13.7	10.3	6.9	3.6	2.7	1.8	6.4	4.8	3.2	8.8	6.6	4.4	14.3	10.7	7.1
	L/360	2.5	1.9	1.3	3.0	2.3	1.5	3.8	2.9	1.9	5.4	4.0	2.7	2.7	2.0	1.3	3.2	2.4	1.6	4.1	3.1	2.1	5.9	4.5	3.0
5.60	Strength	3.0	2.3	1.5	5.4	4.0	2.7	7.3	5.5	3.7	11.8	8.9	5.9	3.1	2.3	1.6	5.5	4.1	2.8	7.6	5.7	3.8	12.3	9.2	6.1
	L/360	2.0	1.5	1.0	2.4	1.8	1.2	3.1	2.3	1.5	4.3	3.2	2.2	2.2	1.6	1.1	2.6	1.9	1.3	3.3	2.5	1.7	4.8	3.6	2.4
6.00	Strength	2.6	2.0	1.3	4.7	3.5	2.3	6.4	4.8	3.2	10.3	7.7	5.1	2.7	2.0	1.4	4.8	3.6	2.4	6.6	5.0	3.3	10.7	8.0	5.4
	L/360	1.6	1.2	0.8	2.0	1.5	1.0	2.5	1.9	1.3	3.5	2.6	1.8	1.8	1.3	0.9	2.1	1.6	1.0	2.7	2.0	1.3	3.9	2.9	1.9
6.40	Strength	2.3	1.7	1.2	4.1	3.1	2.1	5.6	4.2	2.8	9.1	6.8	4.5	2.4	1.8	1.2	4.2	3.2	2.1	5.8	4.4	2.9	9.4	7.1	4.7
	L/360	1.3	1.0	0.7	1.6	1.2	0.8	2.1	1.5	1.0	2.9	2.2	1.4	1.4	1.1	0.7	1.7	1.3	0.9	2.2	1.7	1.1	3.2	2.4	1.6
6.80	Strength	2.1	1.5	1.0	3.6	2.7	1.8	5.0	3.7	2.5	8.0	6.0	4.0	2.1	1.6	1.1	3.7	2.8	1.9	5.1	3.9	2.6	8.3	6.3	4.2
	L/360	1.1	0.8	0.6	1.3	1.0	0.7	1.7	1.3	0.9	2.4	1.8	1.2	1.2	0.9	0.6	1.4	1.1	0.7	1.9	1.4	0.9	2.7	2.0	1.3
7.20	Strength	1.8	1.4		3.2	2.4	1.6	4.4	3.3	2.2	7.2	5.4	3.6	1.9	1.4	0.9	3.3	2.5	1.7	4.6	3.4	2.3	7.4	5.6	3.7
	L/360	0.9	0.7		1.1	0.9	0.6	1.4	1.1	0.7	2.0	1.5	1.0	1.0	0.8	0.5	1.2	0.9	0.6	1.6	1.2	0.8	2.2	1.7	1.1
7.60	Strength	1.6	1.2		2.9	2.2	1.5	4.0	3.0	2.0	6.4	4.8	3.2	1.7	1.3		3.0	2.2	1.5	4.1	3.1	2.1	6.7	5.0	3.3
	L/360	0.8	0.6		1.0	0.7	0.5	1.2	0.9	0.6	1.7	1.3	0.9	0.9	0.6		1.0	0.8	0.5	1.3	1.0	0.7	1.9	1.4	1.0
8.00	Strength	1.5	1.1		2.6	2.0		3.6	2.7	1.8	5.8	4.3	2.9	1.5	1.1		2.7	2.0		3.7	2.8	1.9	6.0	4.5	3.0
	L/360	0.7	0.5		0.8	0.6		1.1	0.8	0.5	1.5	1.1	0.7	0.7	0.6		0.9	0.7		1.1	0.9	0.6	1.6	1.2	0.8
8.40	Strength	1.3			2.4	1.8		3.3	2.4		5.3	3.9	2.6	1.4			2.5	1.8		3.4	2.5	1.7	5.5	4.1	2.7
	L/360	0.6			0.7	0.5		0.9	0.7		1.3	1.0	0.6	0.6			0.8	0.6		1.0	0.7	0.5	1.4	1.1	0.7
8.80	Strength	1.2			2.2			3.0	2.2		4.8	3.6	2.4	1.3			2.2	1.7		3.1	2.3		5.0	3.7	2.5
	L/360	0.5			0.6			0.8	0.6		1.1	0.8	0.6	0.6			0.7	0.5		0.9	0.6		1.2	0.9	0.6
9.20	Strength				2.0			2.7	2.0		4.4	3.3	2.2	1.2			2.0			2.8	2.1		4.6	3.4	2.3
	L/360				0.5			0.7	0.5		1.0	0.7	0.5	0.5			0.6			0.7	0.6		1.1	0.8	0.5

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 24 kPa and less than 0.5 kPa are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE
Uniformly Distributed Single Span Loads (kPa) with $K_\varphi = 0$

Strength - Factored Loads **L/360 - Specified Loads**

Span (m)	Section / Design Criteria	1000S162-54 Spacing (mm)			1000S162-68 Spacing (mm)			1000S162-97 Spacing (mm)			1000S200-54 Spacing (mm)			1000S200-68 Spacing (mm)			1000S200-97 Spacing (mm)		
		305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610
3.20	Strength	16.9*	12.6*	8.4*	23.4*	17.6*	11.7*			19.1*	19.3*	14.5*	9.7*		20.3*	13.5*			21.9*
	L/360	16.8	12.6	8.4	21.5	16.1	10.8			15.3	19.2	14.4	9.6		18.4	12.3			17.4
3.60	Strength	13.3*	10.0*	6.7*	18.5*	13.9*	9.3*		22.7*	15.1*	15.5*	11.6*	7.7*	21.4*	16.0*	10.7*			17.3*
	L/360	11.8	8.9	5.9	15.1	11.3	7.6		16.1	10.8	13.5	10.1	6.7	17.2	12.9	8.6			12.3
4.00	Strength	10.8*	8.1*	5.4*	15.0*	11.2*	7.5*		18.3*	12.2*	12.5*	9.4*	6.3*	17.3*	13.0*	8.7*		21.0*	14.0*
	L/360	8.6	6.5	4.3	11.0	8.3	5.5		11.8	7.8	9.8	7.4	4.9	12.6	9.4	6.3		13.4	8.9
4.40	Strength	8.9*	6.7*	4.5*	12.4*	9.3*	6.2*	20.2	15.2	10.1	10.4*	7.8*	5.2*	14.3*	10.7*	7.2*	23.1	*17.3*	11.6*
	L/360	6.5	4.8	3.2	8.3	6.2	4.1	11.8	8.8	5.9	7.4	5.5	3.7	9.4	7.1	4.7	13.4	10.1	6.7
4.80	Strength	7.5*	5.6*	3.7*	10.4*	7.8*	5.2*	17	12.7	8.5	8.7*	6.5*	4.4*	12.0*	9.0*	6.0*	19.4	*14.6*	9.7*
	L/360	5.0	3.7	2.5	6.4	4.8	3.2	9.1	6.8	4.5	5.7	4.3	2.8	7.3	5.5	3.6	10.3	7.8	5.2
5.20	Strength	6.4*	4.8*	3.2*	8.9	6.7	4.4	14.5	10.9	7.2	7.4*	5.6*	3.7*	10.3*	7.7*	5.1*	16.6	12.4	8.3
	L/360	3.9	2.9	2.0	5.0	3.8	2.5	7.1	5.4	3.6	4.5	3.4	2.2	5.7	4.3	2.9	8.1	6.1	4.1
5.60	Strength	5.5	4.1	2.8	7.6	5.7	3.8	12.5	9.4	6.2	6.4*	4.8*	3.2*	8.8*	6.6*	4.4*	14.3	10.7	7.1
	L/360	3.1	2.4	1.6	4.0	3.0	2.0	5.7	4.3	2.9	3.6	2.7	1.8	4.6	3.4	2.3	6.5	4.9	3.3
6.00	Strength	4.8	3.6	2.4	6.7	5.0	3.3	10.9	8.2	5.4	5.6*	4.2*	2.8*	7.7	5.8	3.9	12.4	9.3	6.2
	L/360	2.5	1.9	1.3	3.3	2.4	1.6	4.6	3.5	2.3	2.9	2.2	1.5	3.7	2.8	1.9	5.3	4.0	2.6
6.40	Strength	4.2	3.2	2.1	5.9	4.4	2.9	9.6	7.2	4.8	4.9	3.7	2.5	6.8	5.1	3.4	10.9	8.2	5.5
	L/360	2.1	1.6	1.1	2.7	2.0	1.3	3.8	2.9	1.9	2.4	1.8	1.2	3.1	2.3	1.5	4.4	3.3	2.2
6.80	Strength	3.7	2.8	1.9	5.2	3.9	2.6	8.5	6.3	4.2	4.3	3.3	2.2	6.0	4.5	3.0	9.7	7.3	4.8
	L/360	1.8	1.3	0.9	2.2	1.7	1.1	3.2	2.4	1.6	2.0	1.5	1.0	2.6	1.9	1.3	3.6	2.7	1.8
7.20	Strength	3.3	2.5	1.7	4.6	3.5	2.3	7.6	5.7	3.8	3.9	2.9	1.9	5.3	4.0	2.7	8.6	6.5	4.3
	L/360	1.5	1.1	0.7	1.9	1.4	0.9	2.7	2.0	1.3	1.7	1.3	0.8	2.2	1.6	1.1	3.1	2.3	1.5
7.60	Strength	3.0	2.2	1.5	4.2	3.1	2.1	6.8	5.1	3.4	3.5	2.6	1.7	4.8	3.6	2.4	7.8	5.8	3.9
	L/360	1.3	0.9	0.6	1.6	1.2	0.8	2.3	1.7	1.1	1.4	1.1	0.7	1.8	1.4	0.9	2.6	2.0	1.3
8.00	Strength	2.7	2.0	1.3	3.7	2.8	1.9	6.1	4.6	3.1	3.1	2.4	1.6	4.3	3.2	2.2	7.0	5.2	3.5
	L/360	1.1	0.8	0.5	1.4	1.0	0.7	2.0	1.5	1.0	1.2	0.9	0.6	1.6	1.2	0.8	2.2	1.7	1.1
8.40	Strength	2.4	1.8		3.4	2.6	1.7	5.5	4.2	2.8	2.8	2.1	1.4	3.9	2.9	2.0	6.3	4.8	3.2
	L/360	0.9	0.7		1.2	0.9	0.6	1.7	1.3	0.8	1.1	0.8	0.5	1.4	1.0	0.7	1.9	1.4	1.0
8.80	Strength	2.2	1.7		3.1	2.3	1.5	5.1	3.8	2.5	2.6	1.9		3.6	2.7	1.8	5.8	4.3	2.9
	L/360	0.8	0.6		1.0	0.8	0.5	1.5	1.1	0.7	0.9	0.7		1.2	0.9	0.6	1.7	1.3	0.8
9.20	Strength	2.0	1.5		2.8	2.1		4.6	3.5	2.3	2.4	1.8		3.3	2.5	1.6	5.3	4.0	2.6
	L/360	0.7	0.5		0.9	0.7		1.3	1.0	0.6	0.8	0.6		1.0	0.8	0.5	1.5	1.1	0.7
9.60	Strength	1.9			2.6	2.0		4.2	3.2	2.1	2.2	1.6		3.0	2.3		4.9	3.6	2.4
	L/360	0.6			0.8	0.6		1.1	0.9	0.6	0.7	0.5		0.9	0.7		1.3	1.0	0.6
10.0	Strength	1.7			2.4	1.8		3.9	2.9	2.0	2.0			2.8	2.1		4.5	3.4	2.2
	L/360	0.6			0.7	0.5		1.0	0.8	0.5	0.6			0.8	0.6		1.1	0.9	0.6

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 24 kPa and less than 0.5 kPa are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (kPa) with $K_\varphi = 0$

Strength - Factored Loads **L/360 - Specified Loads**

	Section	1000S250-54			1000S250-68			1000S250-97			1000S300-54			1000S300-68			1000S300-97		
Span	Design	Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)		
(m)	Criteria	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610
3.20	Strength	19.3*	14.5*	9.7*		21.5*	14.3*			23.3*	19.3*	14.5*	9.7*		22.2*	14.8*			
	L/360	22	16.5	11.0		21.0	14.0			19.7	23.1	17.3	11.6		22.5	15.0			
3.60	Strength	16.4*	12.3*	8.2*	22.6*	17.0*	11.3*			18.4*	16.8*	12.6*	8.4*	23.3*	17.5*	11.7*			19.1*
	L/360	15.5	11.6	7.7	19.7	14.8	9.9			13.8	16.2	12.2	8.1	21.1	15.8	10.5			15.1
4.00	Strength	13.3*	9.9*	6.6*	18.3*	13.7*	9.2*		22.4*	14.9*	13.6*	10.2*	6.8*	18.9*	14.2*	9.5*		23.2*	15.5*
	L/360	11.3	8.5	5.6	14.4	10.8	7.2		15.1	10.1	11.8	8.9	5.9	15.4	11.5	7.7		16.6	11.0
4.40	Strength	11.0*	8.2*	5.5*	15.1*	11.3*	7.6*		18.5*	12.3*	11.3*	8.5*	5.6*	15.6*	11.7*	7.8*		19.2*	12.8*
	L/360	8.5	6.4	4.2	10.8	8.1	5.4		11.4	7.6	8.9	6.7	4.4	11.6	8.7	5.8		12.4	8.3
4.80	Strength	9.2*	6.9*	4.6*	12.7*	9.5*	6.4*	20.7*	15.5*	10.4*	9.5*	7.1*	4.7*	13.1*	9.8*	6.6*	21.5*	16.1*	10.7*
	L/360	6.5	4.9	3.3	8.3	6.2	4.2	11.7	8.8	5.8	6.9	5.1	3.4	8.9	6.7	4.4	12.8	9.6	6.4
5.20	Strength	7.8*	5.9*	3.9*	10.8*	8.1*	5.4*	17.7	13.2	8.8	8.1*	6.1*	4.0*	11.2*	8.4*	5.6*	18.3*	13.7*	9.2*
	L/360	5.1	3.8	2.6	6.5	4.9	3.3	9.2	6.9	4.6	5.4	4.0	2.7	7.0	5.2	3.5	10.1	7.5	5.0
5.60	Strength	6.8*	5.1*	3.4*	9.3*	7.0*	4.7*	15.2	11.4	7.6	7.0*	5.2*	3.5*	9.6*	7.2*	4.8*	15.8	11.8	7.9
	L/360	4.1	3.1	2.1	5.2	3.9	2.6	7.4	5.5	3.7	4.3	3.2	2.2	5.6	4.2	2.8	8.0	6.0	4.0
6.00	Strength	5.9*	4.4*	2.9*	8.1	6.1	4.1	13.3	9.9	6.6	6.1*	4.5*	3.0*	8.4*	6.3*	4.2*	13.8	10.3	6.9
	L/360	3.3	2.5	1.7	4.3	3.2	2.1	6	4.5	3.0	3.5	2.6	1.8	4.6	3.4	2.3	6.5	4.9	3.3
6.40	Strength	5.2*	3.9*	2.6*	7.2	5.4	3.6	11.7	8.7	5.8	5.3*	4.0*	2.7*	7.4	5.5	3.7	12.1	9.1	6.0
	L/360	2.8	2.1	1.4	3.5	2.6	1.8	4.9	3.7	2.5	2.9	2.2	1.4	3.8	2.8	1.9	5.4	4.0	2.7
6.80	Strength	4.6	3.4	2.3	6.3	4.8	3.2	10.3	7.7	5.2	4.7	3.5	2.4	6.5	4.9	3.3	10.7	8.0	5.4
	L/360	2.3	1.7	1.1	2.9	2.2	1.5	4.1	3.1	2.1	2.4	1.8	1.2	3.1	2.3	1.6	4.5	3.4	2.2
7.20	Strength	4.1	3.1	2.0	5.7	4.2	2.8	9.2	6.9	4.6	4.2	3.2	2.1	5.8	4.4	2.9	9.6	7.2	4.8
	L/360	1.9	1.4	1.0	2.5	1.8	1.2	3.5	2.6	1.7	2.0	1.5	1.0	2.6	2.0	1.3	3.8	2.8	1.9
7.60	Strength	3.7	2.8	1.8	5.1	3.8	2.5	8.3	6.2	4.1	3.8	2.8	1.9	5.2	3.9	2.6	8.6	6.4	4.3
	L/360	1.6	1.2	0.8	2.1	1.6	1.0	2.9	2.2	1.5	1.7	1.3	0.9	2.2	1.7	1.1	3.2	2.4	1.6
8.00	Strength	3.3	2.5	1.7	4.6	3.4	2.3	7.5	5.6	3.7	3.4	2.6	1.7	4.7	3.5	2.4	7.7	5.8	3.9
	L/360	1.4	1.1	0.7	1.8	1.3	0.9	2.5	1.9	1.3	1.5	1.1	0.7	1.9	1.4	1.0	2.8	2.1	1.4
8.40	Strength	3.0	2.3	1.5	4.2	3.1	2.1	6.8	5.1	3.4	3.1	2.3	1.5	4.3	3.2	2.1	7.0	5.3	3.5
	L/360	1.2	0.9	0.6	1.6	1.2	0.8	2.2	1.6	1.1	1.3	1.0	0.6	1.7	1.2	0.8	2.4	1.8	1.2
8.80	Strength	2.7	2.1	1.4	3.8	2.8	1.9	6.2	4.6	3.1	2.8	2.1	1.4	3.9	2.9	2.0	6.4	4.8	3.2
	L/360	1.1	0.8	0.5	1.3	1.0	0.7	1.9	1.4	0.9	1.1	0.8	0.6	1.4	1.1	0.7	2.1	1.6	1.0
9.20	Strength	2.5	1.9		3.5	2.6	1.7	5.6	4.2	2.8	2.6	1.9	1.3	3.6	2.7	1.8	5.9	4.4	2.9
	L/360	0.9	0.7		1.2	0.9	0.6	1.7	1.2	0.8	1.0	0.7	0.5	1.3	0.9	0.6	1.8	1.4	0.9
9.60	Strength	2.3	1.7		3.2	2.4	1.6	5.2	3.9	2.6	2.4	1.8		3.3	2.5	1.6	5.4	4.0	2.7
	L/360	0.8	0.6		1.0	0.8	0.5	1.5	1.1	0.7	0.9	0.6		1.1	0.8	0.6	1.6	1.2	0.8
10.0	Strength	2.1	1.6		2.9	2.2		4.8	3.6	2.4	2.2	1.6		3.0	2.3	1.5	5.0	3.7	2.5
	L/360	0.7	0.5		0.9	0.7		1.3	1.0	0.6	0.8	0.6		1.0	0.7	0.5	1.4	1.1	0.7

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 24 kPa and less than 0.5 kPa are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (kPa) with $K_\varphi = 0$

Strength - Factored Loads | **L/360 - Specified Loads**

Span (m)	Section	1200S162-68			1200S162-97			1200S200-68			1200S200-97			1200S250-68			1200S250-97			1200S300-68			1200S300-97		
	Design	Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)		
	Criteria	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610
4.00	**Strength**	17.6*	13.2*	8.8*		22.1*	14.7*	20.6*	15.4*	10.3*			17.1*	22.1*	16.5*	11.0*			18.2*	22.8*	17.1*	11.4*			19.0*
	L/360	16.9	12.7	8.4		18.4	12.3	19.1	14.4	9.6			13.9	21.2	15.9	10.6			15.6	23.8	17.8	11.9			17.1
4.40	**Strength**	14.6*	10.9*	7.3*		18.3*	12.2*	17.0*	12.8*	8.5*		21.1*	14.1*	18.2*	13.7*	9.1*		22.5*	15.0*	18.8*	14.1*	9.4*		23.5*	15.7*
	L/360	12.7	9.5	6.3		13.9	9.2	14.4	10.8	7.2		15.7	10.4	15.9	11.9	7.9		17.5	11.7	17.9	13.4	8.9		19.3	12.8
4.80	**Strength**	12.3*	9.2*	6.1*	20.5*	15.3*	10.2*	14.3*	10.7*	7.1*	23.7*	17.8*	11.8*	15.3*	11.5*	7.7*		18.9*	12.6*	15.8*	11.9*	7.9*		19.8*	13.2*
	L/360	9.8	7.3	4.9	14.2	10.7	7.1	11.1	8.3	5.5	16.1	12.1	8.0	12.2	9.2	6.1		13.5	9.0	13.8	10.3	6.9		14.8	9.9
5.20	**Strength**	10.4*	7.8*	5.2*	17.4*	13.1*	8.7*	12.2*	9.1*	6.1*	20.2*	15.1*	10.1*	13.1*	9.8*	6.5*	21.5*	16.1*	10.7*	13.5*	10.1*	6.7*	22.5*	16.9*	11.2*
	L/360	7.7	5.8	3.8	11.2	8.4	5.6	8.7	6.5	4.4	12.6	9.5	6.3	9.6	7.2	4.8	14.2	10.6	7.1	10.8	8.1	5.4	15.6	11.7	7.8
5.60	**Strength**	9.0*	6.8*	4.5*	15	11.3	7.5	10.5*	7.9*	5.2*	17.4*	13.0*	8.7*	11.3*	8.4*	5.6*	18.5*	13.9*	9.3*	11.6*	8.7*	5.8*	19.4*	14.5*	9.7*
	L/360	6.1	4.6	3.1	9.0	6.7	4.5	7.0	5.2	3.5	10.1	7.6	5.1	7.7	5.8	3.9	11.3	8.5	5.7	8.7	6.5	4.3	12.5	9.3	6.2
6.00	**Strength**	7.8	5.9	3.9	13.1	9.8	6.5	9.1*	6.9*	4.6*	15.2*	11.4*	7.6*	9.8*	7.4*	4.9*	16.1*	12.1*	8.1*	10.1*	7.6*	5.1*	16.9*	12.7*	8.4*
	L/360	5.0	3.7	2.5	7.3	5.5	3.6	5.7	4.3	2.8	8.2	6.2	4.1	6.3	4.7	3.1	9.2	6.9	4.6	7.0	5.3	3.5	10.1	7.6	5.1
6.40	**Strength**	6.9	5.2	3.4	11.5	8.6	5.8	8.0*	6.0*	4.0*	13.3	10	6.7	8.6*	6.5*	4.3*	14.2*	10.6*	7.1*	8.9*	6.7*	4.5*	14.8*	11.1*	7.4*
	L/360	4.1	3.1	2.1	6.0	4.5	3.0	4.7	3.5	2.3	6.8	5.1	3.4	5.2	3.9	2.6	7.6	5.7	3.8	5.8	4.4	2.9	8.3	6.3	4.2
6.80	**Strength**	6.1	4.6	3.1	10.2	7.6	5.1	7.1*	5.3*	3.6*	11.8	8.8	5.9	7.6*	5.7*	3.8*	12.6	9.4	6.3	7.9*	5.9*	3.9*	13.1	9.9	6.6
	L/360	3.4	2.6	1.7	5.0	3.8	2.5	3.9	2.9	1.9	5.7	4.2	2.8	4.3	3.2	2.2	6.3	4.7	3.2	4.8	3.6	2.4	7.0	5.2	3.5
7.20	**Strength**	5.4	4.1	2.7	9.1	6.8	4.5	6.3	4.8	3.2	10.5	7.9	5.3	6.8*	5.1*	3.4*	11.2	8.4	5.6	7.0*	5.3*	3.5*	11.7	8.8	5.9
	L/360	2.9	2.2	1.4	4.2	3.2	2.1	3.3	2.5	1.6	4.8	3.6	2.4	3.6	2.7	1.8	5.3	4.0	2.7	4.1	3.1	2.0	5.9	4.4	2.9
7.60	**Strength**	4.9	3.7	2.4	8.2	6.1	4.1	5.7	4.3	2.8	9.4	7.1	4.7	6.1	4.6	3.1	10.1	7.5	5.0	6.3*	4.7*	3.2*	10.5	7.9	5.3
	L/360	2.5	1.8	1.2	3.6	2.7	1.8	2.8	2.1	1.4	4.1	3.0	2.0	3.1	2.3	1.5	4.5	3.4	2.3	3.5	2.6	1.7	5.0	3.7	2.5
8.00	**Strength**	4.4	3.3	2.2	7.4	5.5	3.7	5.1	3.9	2.6	8.5	6.4	4.3	5.5	4.1	2.8	9.1	6.8	4.5	5.7	4.3	2.8	9.5	7.1	4.7
	L/360	2.1	1.6	1.1	3.1	2.3	1.5	2.4	1.8	1.2	3.5	2.6	1.7	2.6	2.0	1.3	3.9	2.9	1.9	3.0	2.2	1.5	4.3	3.2	2.1
8.40	**Strength**	4.0	3.0	2.0	6.7	5.0	3.3	4.7	3.5	2.3	7.7	5.8	3.9	5.0	3.8	2.5	8.2	6.2	4.1	5.2	3.9	2.6	8.6	6.5	4.3
	L/360	1.8	1.4	0.9	2.7	2.0	1.3	2.1	1.5	1.0	3.0	2.2	1.5	2.3	1.7	1.1	3.4	2.5	1.7	2.6	1.9	1.3	3.7	2.8	1.8
8.80	**Strength**	3.6	2.7	1.8	6.1	4.6	3.0	4.3	3.2	2.1	7.0	5.3	3.5	4.6	3.4	2.3	7.5	5.6	3.8	4.7	3.5	2.4	7.9	5.9	3.9
	L/360	1.6	1.2	0.8	2.3	1.7	1.2	1.8	1.3	0.9	2.6	2.0	1.3	2.0	1.5	1.0	2.9	2.2	1.5	2.2	1.7	1.1	3.2	2.4	1.6
9.20	**Strength**	3.3	2.5	1.7	5.6	4.2	2.8	3.9	2.9	1.9	6.4	4.8	3.2	4.2	3.1	2.1	6.9	5.2	3.4	4.3	3.2	2.2	7.2	5.4	3.6
	L/360	1.4	1.0	0.7	2.0	1.5	1.0	1.6	1.2	0.8	2.3	1.7	1.1	1.7	1.3	0.9	2.6	1.9	1.3	2.0	1.5	1.0	2.8	2.1	1.4
9.60	**Strength**	3.1	2.3	1.5	5.1	3.8	2.6	3.6	2.7	1.8	5.9	4.4	3.0	3.8	2.9	1.9	6.3	4.7	3.2	4.0	3.0	2.0	6.6	4.9	3.3
	L/360	1.2	0.9	0.6	1.8	1.3	0.9	1.4	1.0	0.7	2.0	1.5	1.0	1.5	1.1	0.8	2.3	1.7	1.1	1.7	1.3	0.9	2.5	1.9	1.2
10.0	**Strength**	2.8	2.1	1.4	4.7	3.5	2.4	3.3	2.5	1.6	5.5	4.1	2.7	3.5	2.6	1.8	5.8	4.4	2.9	3.6	2.7	1.8	6.1	4.6	3.0
	L/360	1.1	0.8	0.5	1.6	1.2	0.8	1.2	0.9	0.6	1.8	1.3	0.9	1.4	1.0	0.7	2.0	1.5	1.0	1.5	1.1	0.8	2.2	1.6	1.1
10.4	**Strength**	2.6	2.0	1.3	4.4	3.3	2.2	3.0	2.3	1.5	5.0	3.8	2.5	3.3	2.4	1.6	5.4	4.0	2.7	3.4	2.5	1.7	5.6	4.2	2.8
	L/360	1.0	0.7	0.5	1.4	1.0	0.7	1.1	0.8	0.5	1.6	1.2	0.8	1.2	0.9	0.6	1.8	1.3	0.9	1.4	1.0	0.7	1.9	1.5	1.0
10.8	**Strength**	2.4	1.8		4.0	3.0	2.0	2.8	2.1	1.4	4.7	3.5	2.3	3.0	2.3	1.5	5.0	3.7	2.5	3.1	2.3	1.6	5.2	3.9	2.6
	L/360	0.9	0.6		1.2	0.9	0.6	1.0	0.7	0.5	1.4	1.1	0.7	1.1	0.8	0.5	1.6	1.2	0.8	1.2	0.9	0.6	1.7	1.3	0.9
11.2	**Strength**	2.3	1.7		3.8	2.8	1.9	2.6	2.0		4.3	3.3	2.2	2.8	2.1	1.4	4.6	3.5	2.3	2.9	2.2	1.5	4.8	3.6	2.4
	L/360	0.8	0.6		1.1	0.8	0.6	0.9	0.7		1.3	0.9	0.6	1.0	0.7	0.5	1.4	1.1	0.7	1.1	0.8	0.5	1.6	1.2	0.8
11.6	**Strength**	2.1	1.6		3.5	2.6	1.8	2.4	1.8		4.1	3.0	2.0	2.6	2.0		4.3	3.2	2.2	2.7	2.0	1.4	4.5	3.4	2.3
	L/360	0.7	0.5		1.0	0.8	0.5	0.8	0.6		1.1	0.9	0.6	0.9	0.7		1.3	1.0	0.6	1.0	0.7	0.5	1.4	1.1	0.7

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 24 kPa and less than 0.5 kPa are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (kPa) with $K_\varphi = 0$

Strength - Factored Loads | **L/360 - Specified Loads**

Span (m)	Section	1400S162-68			1400S162-97			1400S200-68			1400S200-97			1400S250-68			1400S250-97			1400S300-68			1400S300-97		
	Design Criteria	Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)			Spacing (mm)		
		305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610
4.40	Strength	16.4*	12.3*	8.2*		21.0*	14.0*	19.5*	14.6*	9.7*			16.3*	20.0*	15.0*	10.0*			17.5*	20.0*	15.0*	10.0*			18.4*
	L/360	18.1	13.6	9.1		20.1	13.4	20.5	15.4	10.2			15.1	22.5	16.9	11.3			16.8	23.8	17.9	11.9			18.1
4.80	Strength	13.8*	10.3*	6.9*	23.6*	17.7*	11.8*	16.3*	12.3*	8.2*		20.6*	13.7*	17.6*	13.2*	8.8*		22.1*	14.7*	18.4*	13.8*	9.2*		23.2*	15.4*
	L/360	14.0	10.5	7.0	20.6	15.5	10.3	15.8	11.8	7.9		17.4	11.6	17.4	13.0	8.7		19.4	12.9	18.3	13.8	9.2		20.9	14.0
5.20	Strength	11.7*	8.8*	5.9*	20.1*	15.1*	10.0*	13.9*	10.4*	7.0*	23.4*	17.5*	11.7*	15.0*	11.3*	7.5*		18.8*	12.6*	15.7*	11.8*	7.8*		19.7*	13.2*
	L/360	11.0	8.2	5.5	16.2	12.2	8.1	12.4	9.3	6.2	18.2	13.7	9.1	13.7	10.2	6.8		15.2	10.2	14.4	10.8	7.2		16.5	11
5.60	Strength	10.1*	7.6*	5.1*	17.3*	13.0*	8.7*	12.0*	9.0*	6.0*	20.1*	15.1*	10.1*	13.0*	9.7*	6.5*	21.7*	16.2*	10.8*	13.5*	10.1*	6.8*	22.7*	17.0*	11.3*
	L/360	8.8	6.6	4.4	13.0	9.8	6.5	9.9	7.5	5.0	14.6	11.0	7.3	10.9	8.2	5.5	16.3	12.2	8.1	11.6	8.7	5.8	17.6	13.2	8.8
6.00	Strength	8.8*	6.6*	4.4*	15.1*	11.3*	7.5*	10.5*	7.8*	5.2*	17.5*	13.2*	8.8*	11.3*	8.5*	5.6*	18.9*	14.1*	9.4*	11.8*	8.8*	5.9*	19.8*	14.8*	9.9*
	L/360	7.2	5.4	3.6	10.6	7.9	5.3	8.1	6.1	4.0	11.9	8.9	5.9	8.9	6.7	4.4	13.2	9.9	6.6	9.4	7.0	4.7	14.3	10.7	7.1
6.40	Strength	7.7*	5.8*	3.9*	13.2	9.9	6.6	9.2*	6.9*	4.6*	15.4*	11.6*	7.7*	9.9*	7.4*	5.0*	16.6*	12.4*	8.3*	10.4*	7.8*	5.2*	17.4*	13.0*	8.7*
	L/360	5.9	4.4	2.9	8.7	6.5	4.4	6.7	5.0	3.3	9.8	7.3	4.9	7.3	5.5	3.7	10.9	8.2	5.4	7.7	5.8	3.9	11.8	8.8	5.9
6.80	Strength	6.9*	5.1*	3.4*	11.7	8.8	5.9	8.1*	6.1*	4.1*	13.7*	10.2*	6.8*	8.8*	6.6*	4.4*	14.7*	11.0*	7.3*	9.2*	6.9*	4.6*	15.4*	11.5*	7.7*
	L/360	4.9	3.7	2.5	7.3	5.4	3.6	5.5	4.2	2.8	8.2	6.1	4.1	6.1	4.6	3.1	9.1	6.8	4.5	6.5	4.8	3.2	9.8	7.4	4.9
7.20	Strength	6.1	4.6	3.1	10.5	7.9	5.2	7.3*	5.4*	3.6*	12.2	9.1	6.1	7.8*	5.9*	3.9*	13.1*	9.8*	6.5*	8.2*	6.1*	4.1*	13.7*	10.3*	6.9*
	L/360	4.1	3.1	2.1	6.1	4.6	3.1	4.7	3.5	2.3	6.9	5.2	3.4	5.1	3.9	2.6	7.7	5.7	3.8	5.4	4.1	2.7	8.3	6.2	4.1
7.60	Strength	5.5	4.1	2.7	9.4	7.0	4.7	6.5*	4.9*	3.3*	10.9	8.2	5.5	7.0*	5.3*	3.5*	11.8*	8.8*	5.9*	7.3*	5.5*	3.7*	12.3*	9.2*	6.2*
	L/360	3.5	2.6	1.8	5.2	3.9	2.6	4.0	3.0	2.0	5.8	4.4	2.9	4.4	3.3	2.2	6.5	4.9	3.3	4.6	3.5	2.3	7.0	5.3	3.5
8.00	Strength	5.0	3.7	2.5	8.5	6.4	4.2	5.9*	4.4*	2.9*	9.9	7.4	4.9	6.3*	4.8*	3.2*	10.6	8.0	5.3	6.6*	5.0*	3.3*	11.1*	8.3*	5.6*
	L/360	3.0	2.3	1.5	4.5	3.3	2.2	3.4	2.6	1.7	5.0	3.8	2.5	3.8	2.8	1.9	5.6	4.2	2.8	4.0	3.0	2.0	6.0	4.5	3.0
8.40	Strength	4.5	3.4	2.2	7.7	5.8	3.8	5.3	4.0	2.7	9.0	6.7	4.5	5.8*	4.3*	2.9*	9.6	7.2	4.8	6.0*	4.5*	3.0*	10.1	7.6	5.0
	L/360	2.6	2.0	1.3	3.9	2.9	1.9	2.9	2.2	1.5	4.3	3.2	2.2	3.2	2.4	1.6	4.8	3.6	2.4	3.4	2.6	1.7	5.2	3.9	2.6
8.80	Strength	4.1	3.1	2.0	7.0	5.3	3.5	4.9	3.6	2.4	8.2	6.1	4.1	5.2*	3.9*	2.6*	8.8	6.6	4.4	5.5*	4.1*	2.7*	9.2	6.9	4.6
	L/360	2.3	1.7	1.1	3.4	2.5	1.7	2.6	1.9	1.3	3.8	2.8	1.9	2.8	2.1	1.4	4.2	3.1	2.1	3.0	2.2	1.5	4.5	3.4	2.3
9.20	Strength	3.7	2.8	1.9	6.4	4.8	3.2	4.4	3.3	2.2	7.5	5.6	3.7	4.8	3.6	2.4	8.0	6.0	4.0	5.0*	3.8*	2.5*	8.4	6.3	4.2
	L/360	2.0	1.5	1.0	2.9	2.2	1.5	2.2	1.7	1.1	3.3	2.5	1.6	2.5	1.8	1.2	3.7	2.8	1.8	2.6	2.0	1.3	4.0	3.0	2.0
9.60	Strength	3.4	2.6	1.7	5.9	4.4	2.9	4.1	3.1	2.0	6.9	5.1	3.4	4.4	3.3	2.2	7.4	5.5	3.7	4.6	3.5	2.3	7.7	5.8	3.9
	L/360	1.7	1.3	0.9	2.6	1.9	1.3	2.0	1.5	1.0	2.9	2.2	1.4	2.2	1.6	1.1	3.2	2.4	1.6	2.3	1.7	1.1	3.5	2.6	1.7
10.0	Strength	3.2	2.4	1.6	5.4	4.1	2.7	3.8	2.8	1.9	6.3	4.7	3.2	4.1	3.0	2.0	6.8	5.1	3.4	4.2	3.2	2.1	7.1	5.3	3.6
	L/360	1.5	1.2	0.8	2.3	1.7	1.1	1.7	1.3	0.9	2.6	1.9	1.3	1.9	1.4	1.0	2.9	2.1	1.4	2.0	1.5	1.0	3.1	2.3	1.5
10.4	Strength	2.9	2.2	1.5	5.0	3.8	2.5	3.5	2.6	1.7	5.8	4.4	2.9	3.8	2.8	1.9	6.3	4.7	3.1	3.9	2.9	2.0	6.6	4.9	3.3
	L/360	1.4	1.0	0.7	2.0	1.5	1.0	1.6	1.2	0.8	2.3	1.7	1.1	1.7	1.3	0.9	2.5	1.9	1.3	1.8	1.4	0.9	2.7	2.1	1.4
10.8	Strength	2.7	2.0	1.4	4.7	3.5	2.3	3.2	2.4	1.6	5.4	4.1	2.7	3.5	2.6	1.7	5.8	4.4	2.9	3.6	2.7	1.8	6.1	4.6	3.1
	L/360	1.2	0.9	0.6	1.8	1.4	0.9	1.4	1.0	0.7	2.0	1.5	1.0	1.5	1.1	0.8	2.3	1.7	1.1	1.6	1.2	0.8	2.5	1.8	1.2
11.2	Strength	2.5	1.9	1.3	4.3	3.2	2.2	3.0	2.3	1.5	5.0	3.8	2.5	3.2	2.4	1.6	5.4	4.1	2.7	3.4	2.5	1.7	5.7	4.3	2.8
	L/360	1.1	0.8	0.5	1.6	1.2	0.8	1.2	0.9	0.6	1.8	1.4	0.9	1.4	1.0	0.7	2.0	1.5	1.0	1.4	1.1	0.7	2.2	1.6	1.1
11.6	Strength	2.4	1.8	1.2	4.0	3.0	2.0	2.8	2.1	1.4	4.7	3.5	2.3	3.0	2.3	1.5	5.0	3.8	2.5	3.2	2.4	1.6	5.3	4.0	2.6
	L/360	1.0	0.7	0.5	1.5	1.1	0.7	1.1	0.8	0.6	1.6	1.2	0.8	1.2	0.9	0.6	1.8	1.4	0.9	1.3	1.0	0.6	2.0	1.5	1.0
12.0	Strength	2.2	1.7		3.8	2.8	1.9	2.6	2.0	1.3	4.4	3.3	2.2	2.8	2.1	1.4	4.7	3.5	2.4	2.9	2.2	1.5	4.9	3.7	2.5
	L/360	0.9	0.7		1.3	1.0	0.7	1.0	0.8	0.5	1.5	1.1	0.7	1.1	0.8	0.6	1.7	1.2	0.8	1.2	0.9	0.6	1.8	1.3	0.9
12.4	Strength	2.1	1.5		3.5	2.6	1.8	2.4	1.8		4.1	3.1	2.1	2.6	2.0	1.3	4.4	3.3	2.2	2.8	2.1	1.4	4.6	3.5	2.3
	L/360	0.8	0.6		1.2	0.9	0.6	0.9	0.7		1.3	1.0	0.7	1.0	0.8	0.5	1.5	1.1	0.7	1.1	0.8	0.5	1.6	1.2	0.8

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 24 kPa and less than 0.5 kPa are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (kPa) with $K_\varphi = 0$

Strength - Factored Loads | **L/360 - Specified Loads**

Span (m)	Design Criteria	800S162-43 Spacing (mm)			800S162-54 Spacing (mm)			800S162-68 Spacing (mm)			800S162-97 Spacing (mm)			800S200-43 Spacing (mm)			800S200-54 Spacing (mm)			800S200-68 Spacing (mm)			800S200-97 Spacing (mm)		
		305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610	305	406	610
2.40	Strength	13.6*	10.2*	6.8*		18.2*	12.1*			16.6*				15.7*	11.8*	7.9*		20.9*	13.9*			19.0*			
	L/360	19.2	14.4	9.6		17.9	11.9			15.1				22.7	17.0	11.3		21.1	14.1			17.4			
2.80	Strength	10.0*	7.5*	5.0*	17.8*	13.4*	8.9*		18.3*	12.2*			19.5*	11.5*	8.7*	5.8*	20.5*	15.3*	10.2*		20.9*	14.0*			22.1*
	L/360	12.1	9.1	6	15	11.3	7.5		14.2	9.5			13.1	14.3	10.7	7.1	17.7	13.3	8.9		16.4	11.0			15.1
3.20	Strength	7.7*	5.8*	3.8*	13.6*	10.2*	6.8*	18.7*	14.0*	9.3*		22.4*	14.9*	8.8*	6.6*	4.4*	15.7*	11.7*	7.8*	21.4*	16.0*	10.7*			16.9*
	L/360	8.1	6.1	4.0	1.0	7.5	5.0	12.7	9.5	6.4		13.1	8.8	9.6	7.2	4.8	11.9	8.9	5.9	14.7	11.0	7.3			10.1
3.60	Strength	6.1	4.5	3.0	10.8*	8.1*	5.4*	14.8*	11.1*	7.4*	23.6	17.7	11.8	7.0*	5.2*	3.5*	12.4*	9.3*	6.2*	16.9*	12.7*	8.4*		20.1*	13.4*
	L/360	5.7	4.3	2.8	7.1	5.3	3.5	8.9	6.7	4.5	12.3	9.2	6.2	6.7	5.0	3.4	8.3	6.2	4.2	10.3	7.7	5.2		10.7	7.1
4.00	Strength	4.9	3.7	2.5	8.7*	6.5*	4.4*	12.0	9.0	6.0	19.1	14.3	9.5	5.7*	4.2*	2.8*	10.0*	7.5*	5.0*	13.7*	10.3*	6.8*	21.7	16.3	10.8
	L/360	4.1	3.1	2.1	5.1	3.9	2.6	6.5	4.9	3.3	9.0	6.7	4.5	4.9	3.7	2.4	6.1	4.6	3.0	7.5	5.6	3.8	10.4	7.8	5.2
4.40	Strength	4.1	3.0	2.0	7.2	5.4	3.6	9.9	7.4	4.9	15.8	11.8	7.9	4.7	3.5	2.3	8.3*	6.2*	4.1*	11.3	8.5	5.7	17.9	13.4	9.0
	L/360	3.1	2.3	1.6	3.9	2.9	1.9	4.9	3.7	2.4	6.7	5.1	3.4	3.7	2.8	1.8	4.6	3.4	2.3	5.7	4.2	2.8	7.8	5.8	3.9
4.80	Strength	3.4	2.6	1.7	6.1	4.5	3.0	8.3	6.2	4.2	13.3	9.9	6.6	3.9	2.9	2.0	7.0*	5.2*	3.5*	9.5	7.1	4.7	15.1	11.3	7.5
	L/360	2.4	1.8	1.2	3.0	2.2	1.5	3.8	2.8	1.9	5.2	3.9	2.6	2.8	2.1	1.4	3.5	2.6	1.8	4.4	3.3	2.2	6.0	4.5	3.0
5.20	Strength	2.9	2.2	1.5	5.2	3.9	2.6	7.1	5.3	3.5	11.3	8.5	5.6	3.3	2.5	1.7	5.9	4.5	3.0	8.1	6.1	4.0	12.8	9.6	6.4
	L/360	1.9	1.4	0.9	2.3	1.8	1.2	3.0	2.2	1.5	4.1	3.1	2.0	2.2	1.7	1.1	2.8	2.1	1.4	3.4	2.6	1.7	4.7	3.5	2.4
5.60	Strength	2.5	1.9	1.3	4.5	3.3	2.2	6.1	4.6	3.0	9.7	7.3	4.9	2.9	2.2	1.4	5.1	3.8	2.6	7.0	5.2	3.5	11.1	8.3	5.5
	L/360	1.5	1.1	0.8	1.9	1.4	0.9	2.4	1.8	1.2	3.3	2.5	1.6	1.8	1.3	0.9	2.2	1.7	1.1	2.7	2.1	1.4	3.8	2.8	1.9
6.00	Strength	2.2	1.6	1.1	3.9	2.9	1.9	5.3	4.0	2.7	8.5	6.4	4.2	2.5	1.9	1.3	4.5	3.3	2.2	6.1	4.6	3.0	9.6	7.2	4.8
	L/360	1.2	0.9	0.6	1.5	1.1	0.8	1.9	1.4	1.0	2.7	2.0	1.3	1.5	1.1	0.7	1.8	1.3	0.9	2.2	1.7	1.1	3.1	2.3	1.5
6.40	Strength	1.9	1.4	1.0	3.4	2.6	1.7	4.7	3.5	2.3	7.5	5.6	3.7	2.2	1.7	1.1	3.9	2.9	2.0	5.3	4.0	2.7	8.5	6.4	4.2
	L/360	1.0	0.8	0.5	1.3	0.9	0.6	1.6	1.2	0.8	2.2	1.6	1.1	1.2	0.9	0.6	1.5	1.1	0.7	1.8	1.4	0.9	2.5	1.9	1.3
6.80	Strength	1.7	1.3		3.0	2.3	1.5	4.1	3.1	2.1	6.6	5.0	3.3	2.0	1.5	1.0	3.5	2.6	1.7	4.7	3.5	2.4	7.5	5.6	3.8
	L/360	0.8	0.6		1.0	0.8	0.5	1.3	1.0	0.7	1.8	1.4	0.9	1.0	0.7	0.5	1.2	0.9	0.6	1.5	1.1	0.8	2.1	1.6	1.1
7.20	Strength	1.5	1.1		2.7	2.0		3.7	2.8	1.8	5.9	4.4	2.9	1.7	1.3		3.1	2.3	1.5	4.2	3.2	2.1	6.7	5.0	3.3
	L/360	0.7	0.5		0.9	0.7		1.1	0.8	0.6	1.5	1.2	0.8	0.8	0.6		1.0	0.8	0.5	1.3	1.0	0.6	1.8	1.3	0.9
7.60	Strength	1.4			2.4	1.8		3.3	2.5		5.3	4.0	2.6	1.6	1.2		2.8	2.1		3.8	2.8	1.9	6.0	4.5	3.0
	L/360	0.6			0.8	0.6		1.0	0.7		1.3	1.0	0.7	0.7	0.5		0.9	0.7		1.1	0.8	0.5	1.5	1.1	0.8
8.00	Strength	1.2			2.2	1.6		3.0	2.2		4.8	3.6	2.4	1.4			2.5	1.9		3.4	2.6		5.4	4.1	2.7
	L/360	0.5			0.6	0.5		0.8	0.6		1.1	0.8	0.6	0.6			0.8	0.6		0.9	0.7		1.3	1.0	0.6
8.40	Strength				2.0			2.7	2.0		4.3	3.2	2.2	1.3			2.3	1.7		3.1	2.3		4.9	3.7	2.5
	L/360				0.6			0.7	0.5		1.0	0.7	0.5	0.5			0.7	0.5		0.8	0.6		1.1	0.8	0.6
8.80	Strength				1.8			2.5			3.9	3.0					2.1			2.8	2.1		4.5	3.4	2.2
	L/360				0.5			0.6			0.8	0.6					0.6			0.7	0.5		1.0	0.7	0.5
9.20	Strength							2.3			3.6	2.7					1.9			2.6			4.1	3.1	
	L/360							0.5			0.7	0.6					0.5			0.6			0.9	0.6	

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 24 kPa and less than 0.5 kPa are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75