

Joist Girders are primary framing members. Their design typically assumes a simple span supporting equally spaced concentrated loads from open web steel joists. Joist Girders are designed to allow efficient use of steel in longer spans for primary framing members. The depth of the designation is determined by the nominal depth at the center of the span except for offset double pitch where the depth is defined as the depth at the ridge.

The standard configuration of a Joist Girder is like that of an open web steel joist with parallel chords, underslung ends and bottom chord extensions. The standard depth of bearing for Joist Girders is 190 mm (7 ½") at the end of the seat. Depending on the magnitude of the applied load it may be necessary to increase the bearing seat depth to 254 mm (10").

The design of joist girders follows the latest specification of CAN/CSA S-16 section 15. Vulcraft uses the simplified method of analysis where all members are pin connected, and the K factors are equal to 1.0 (Clause 15.1.1).

As stated, Joist Girders are typically designed as simple span members, but they may also be designed as part of an ordinary moment frame (OMF). It is the responsibility of the specifying professional to carry out all required frame analysis and provide all load information and required stiffness along with column connections on contract documents when Joist Girders are meant to be a part of an OMF.

The standard method of connecting Joist Girders to columns is two 19 mm (¾") diameter A325 bolts. The bottom chords must be extended to the column during erection to provide lateral stability and prevent the Joist Girder from overturning. Caution: If a rigid connection of the bottom chord is to be made to the column or other support, it is to be made only after the application of the dead loads. The Joist Girder is then no longer simply supported, and the system must be investigated for continuous frame action by the specifying professional.

Open Web Steel Joist Girder Load and Depth Selection Tables

Based on: CSA S16-14

$F_y = 380\text{MPa}$ [55 ksi]

Joist Girder top chords are laterally supported by positive attachment at the point of load application.

The following tables are intended to be a tool to assist the preliminary design and estimate for Joist Girders used in floor and roof construction. All of the values are approximate and are intended as a guide for the specifying professional. Vulcraft will design for the specific loads of the designation at the required span, and the self-weight may vary from the tabulated values (the tabulated values are neither design minimums or maximums). Unless otherwise noted in the structural drawings, it is assumed that the designated loads include an allowance for the self-weight of the Joist Girder.

The top of the table presents the total load applied at panel point locations (typically joist locations). The table can be used with either the maximum service load (**bold type row**) or with the maximum factored load. The first row provides the self-weight (kg/m or plf) of the Joist Girder and the second row indicates the number of bottom chord braces required for the span and depth indicated. The final piece of information is the least weight option for each load and span option which is indicated by the **bold type** self-weight.

There are many other combinations for span, number of panels, loads and Joist Girder depths that are not shown in these tables. It is not practical for these tables to present all possible combinations. In these situations, it is possible to use simple interpolation to determine approximate values.

Example: Using the Joist Girder Table

- | | |
|-----------------------------|----------------------|
| 1) Joist Girder depth | 1220 mm |
| 2) Joist Girder span | 15 m |
| 3) Number of joist spaces | 6 |
| 4) Load at each panel point | 80 kN (service load) |

Joist Girder designation	1219G6N80kN
--------------------------	-------------

Entering the table, we see the self-weight for this Joist Girder is 85 kg/m with a requirement of 1 bottom chord brace. Further review of the table would indicate that a Joist Girder depth of 1422 mm would provide the lightest self-weight of 76 kg/m.

Note the number of bottom chord braces does not include the additional braces required when the Joist Girder must be designed for a net uplift load condition. This load condition causes the bottom chord and end webs to go into compression which will require additional lateral bracing.

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)															
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		
20	2 N @ 10	20	Self Wt (lb/ft)	17	18	22	28	32	40	44	50	57	60	58	69	76	78		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		24	Self Wt (lb/ft)	17	17	21	24	29	32	38	41	47	59	62	62	65	70		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		28	Self Wt (lb/ft)	17	17	18	22	24	25	31	33	39	44	46	50	54	56		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	3 N @ 6.67	20	Self Wt (lb/ft)	17	18	25	32	43	49	53	64	74	69	76	85	98	106		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		24	Self Wt (lb/ft)	17	21	24	29	35	39	47	54	58	69	75	99	81	87		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		28	Self Wt (lb/ft)	17	19	21	27	30	38	41	46	51	60	67	71	80	81		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	4 N @ 5	20	Self Wt (lb/ft)	17	21	34	46	48	68	71	77	87	103	105	121	146	148		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		24	Self Wt (lb/ft)	17	19	27	36	48	50	70	73	73	88	90	106	108	133		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		28	Self Wt (lb/ft)	17	19	24	32	37	50	51	57	73	76	82	91	92	114		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	5 N @ 4	20	Self Wt (lb/ft)	17	26	36	48	69	72	86	103	106	143	148	148	185	188		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		24	Self Wt (lb/ft)	18	24	33	49	55	73	73	80	90	110	113	141	151	153		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		28	Self Wt (lb/ft)	18	23	29	38	51	59	75	77	82	94	96	116	117	136		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	2 N @ 11	20	Self Wt (lb/ft)	17	18	21	29	32	39	48	49	59	60	63	70	70	79		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		24	Self Wt (lb/ft)	17	17	21	24	30	33	41	42	50	51	61	61	70	67		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		28	Self Wt (lb/ft)	17	18	22	24	29	32	38	44	47	55	62	62	65	62		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	3 N @ 7.33	20	Self Wt (lb/ft)	17	20	26	35	42	50	61	68	73	80	85	94	102	111		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		24	Self Wt (lb/ft)	17	18	23	30	38	43	53	54	63	73	75	77	83	97		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		28	Self Wt (lb/ft)	18	18	23	27	34	39	45	52	58	68	68	77	81	83		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	4 N @ 5.5	20	Self Wt (lb/ft)	17	24	34	46	54	69	75	85	102	102	142	143	145	148		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		24	Self Wt (lb/ft)	17	20	29	36	48	55	70	72	79	87	105	105	122	147		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		28	Self Wt (lb/ft)	17	20	27	36	40	51	58	72	73	80	90	91	107	109		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	5 N @ 4.4	20	Self Wt (lb/ft)	17	27	45	54	69	79	101	103	128	144	147	183	187	200		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		24	Self Wt (lb/ft)	17	25	35	48	56	72	77	87	105	108	136	149	150	151		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		28	Self Wt (lb/ft)	18	22	33	41	51	57	74	78	86	100	113	114	133	154		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)																	
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105				
22	6 N @ 3.67	20	Self Wt (lb/ft)	18	34	48	69	84	102	120	142	147	184	188	190						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					
		24	Self Wt (lb/ft)	18	30	49	57	72	78	105	107	126	150	151	189	194	208				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		28	Self Wt (lb/ft)	21	28	37	52	60	81	83	93	110	130	152	154	168	172				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
25	3 N @ 8.33	20	Self Wt (lb/ft)	17	21	29	39	49	59	67	71	78	92	99	106	110	124				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		24	Self Wt (lb/ft)	17	20	27	32	41	50	58	62	66	73	80	93	95	104				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		28	Self Wt (lb/ft)	17	21	23	30	35	43	52	60	63	73	71	76	83	92				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		32	Self Wt (lb/ft)	19	19	24	29	39	44	48	56	57	65	71	70	79	81				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		25	4 N @ 6.25	20	Self Wt (lb/ft)	17	26	42	53	68	74	84	100	118	140	142	143	180	185		
					BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
				24	Self Wt (lb/ft)	17	23	35	48	55	70	71	86	102	104	107	143	146	147		
					BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	Self Wt (lb/ft)			17	22	30	41	51	57	72	74	80	90	107	115	117	128				
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
32	Self Wt (lb/ft)	17	20	28	36	41	50	58	72	73	80	90	91	107	109						
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
25	5 N @ 5	20	Self Wt (lb/ft)	18	34	45	67	73	91	101	140	141	144	182	194	199					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		24	Self Wt (lb/ft)	18	27	42	51	69	75	86	103	124	144	148	148	187	188				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		28	Self Wt (lb/ft)	17	24	35	48	57	72	75	88	105	108	135	150	150	151				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		32	Self Wt (lb/ft)	18	23	33	44	51	63	74	78	86	100	114	115	130	153				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		25	6 N @ 4.17	20	Self Wt (lb/ft)	19	36	53	73	98	117	140	141	182	183						
					BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
				24	Self Wt (lb/ft)	21	34	48	70	75	102	104	142	144	148	185	190	193			
					BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	Self Wt (lb/ft)			18	28	48	57	73	79	89	107	126	150	152	157	193	196				
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
32	Self Wt (lb/ft)	21	29	37	52	60	80	83	93	110	122	138	155	166	171						
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
25	8 N @ 3.13	20	Self Wt (lb/ft)	26	47	73	100	140	143	182	185										
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
		24	Self Wt (lb/ft)	23	47	73	84	105	147	152	193	204	218								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		28	Self Wt (lb/ft)	21	37	58	75	90	109	130	154	179	195	218	226						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
32	Self Wt (lb/ft)	20	36	52	75	79	94	112	141	163	173	215	219	224	231						
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder	Joist Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)															
					7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		
					5	10	15	20	25	30	35	40	45	50	55	60	65	70		
25	8 N @ 3.13	20	Self Wt (lb/ft)	26	47	73	100	140	143	182	185									
			BC Braces	1	1	1	1	1	1	1	1									
		24	Self Wt (lb/ft)	23	47	73	84	105	147	152	193	204	218							
			BC Braces	1	1	1	1	1	1	1	1	1	1							
		28	Self Wt (lb/ft)	21	37	58	75	90	109	130	154	179	195	218	226					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1					
		32	Self Wt (lb/ft)	20	36	52	75	79	94	112	141	163	173	215	219	224	231			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28	3 N @ 9.33	24	Self Wt (lb/ft)	17	21	30	39	44	57	60	67	75	87	92	101	107	111			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		28	Self Wt (lb/ft)	17	20	27	31	42	50	59	62	68	70	78	89	95	97			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		32	Self Wt (lb/ft)	17	21	24	30	40	43	53	60	64	67	72	77	82	93			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		28	4 N @ 7	24	Self Wt (lb/ft)	18	25	37	47	67	69	75	99	102	119	141	143	145	184	
					BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28	Self Wt (lb/ft)			18	23	32	47	51	69	70	76	86	103	105	121	142	146			
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1	1			
32	Self Wt (lb/ft)			17	22	28	37	48	55	71	72	77	88	89	106	107	129			
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1	1			
28	5 N @ 5.6			24	Self Wt (lb/ft)	18	31	45	61	66	83	101	121	141	144	147	183	186	197	
					BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		28	Self Wt (lb/ft)	18	27	40	51	69	72	86	104	105	127	148	149	149	188			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		32	Self Wt (lb/ft)	18	24	36	49	57	72	75	84	97	107	124	135	151	151			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		28	6 N @ 4.67	24	Self Wt (lb/ft)	19	34	52	69	83	102	120	141	146	183	186				
					BC Braces	1	1	1	1	1	1	1	1	1	1	1				
28	Self Wt (lb/ft)			18	32	48	69	71	86	104	123	144	149	185	188	191	203			
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1	1			
32	Self Wt (lb/ft)			18	28	40	57	72	79	89	107	113	150	152	152	194	197			
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1	1			
28	8 N @ 3.5			24	Self Wt (lb/ft)	24	47	69	85	120	143	183	186							
					BC Braces	1	1	1	1	1	1	1	1							
		28	Self Wt (lb/ft)	22	47	69	77	104	124	146	152	199	211							
			BC Braces	1	1	1	1	1	1	1	1	1	1							
		32	Self Wt (lb/ft)	21	38	58	74	90	109	132	154	160	213	215	222					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1					
		30	3 N @ 10	24	Self Wt (lb/ft)	17	23	31	39	55	58	65	75	85	91	92	106	120	124	
					BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28	Self Wt (lb/ft)			17	21	29	36	44	56	58	60	68	77	88	93	96	107			
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1	1			
32	Self Wt (lb/ft)			17	21	27	31	42	46	59	59	61	71	78	81	91	97			
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1	1			
36	Self Wt (lb/ft)			18	21	24	30	39	43	47	60	63	65	72	73	82	85			
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1	1			

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)														
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	
30	4 N @ 7.5	24	Self Wt (lb/ft)	17	29	41	51	67	74	84	100	110	139	142	144	180	185	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		28	Self Wt (lb/ft)	17	25	37	47	62	70	72	85	102	104	123	143	145	146	146
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		32	Self Wt (lb/ft)	18	22	33	44	53	63	72	76	83	90	106	114	126	147	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	36	Self Wt (lb/ft)	18	22	33	38	51	55	67	77	79	83	92	109	112	119		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	30	5 N @ 6	24	Self Wt (lb/ft)	19	34	48	67	73	90	100	124	141	144	182	183	195	
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			28	Self Wt (lb/ft)	18	30	41	54	68	75	93	103	122	144	147	148	187	188
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32			Self Wt (lb/ft)	18	25	37	48	63	71	77	87	105	122	131	150	150	152	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
36		Self Wt (lb/ft)	18	24	33	45	55	72	73	80	90	107	108	134	152	153		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
30		6 N @ 5	24	Self Wt (lb/ft)	20	37	53	66	98	102	140	143	182	182	186			
				BC Braces	1	1	1	1	1	1	1	1	1	1	1			
			28	Self Wt (lb/ft)	21	34	47	69	75	102	104	142	143	148	185	189	201	
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1		
	32		Self Wt (lb/ft)	21	30	48	56	72	78	105	106	125	150	152	189	193	195	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
	36	Self Wt (lb/ft)	21	28	38	51	73	74	90	109	114	128	153	155	159	197		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
	30	8 N @ 3.75	24	Self Wt (lb/ft)	26	47	69	100	139	142	183	187						
				BC Braces	1	1	1	1	1	1	1	1	1					
			28	Self Wt (lb/ft)	23	47	70	85	104	143	146	188	204					
				BC Braces	1	1	1	1	1	1	1	1	1					
32			Self Wt (lb/ft)	22	41	60	78	94	114	156	159	209	214	220				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1				
36		Self Wt (lb/ft)	21	36	56	74	83	109	114	154	161	163	203	220	224			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
32		3 N @ 10.67	24	Self Wt (lb/ft)	17	25	35	42	55	56	65	74	85	98	103	118	129	138
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			28	Self Wt (lb/ft)	17	23	29	39	44	56	57	66	75	86	91	100	107	121
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	32		Self Wt (lb/ft)	17	21	27	35	44	51	57	61	69	73	78	89	94	105	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	36	Self Wt (lb/ft)	17	21	27	31	40	46	58	59	63	70	71	81	91	92		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	32	4 N @ 8	24	Self Wt (lb/ft)	20	30	45	52	70	74	99	101	118	141	141	180	181	195
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			28	Self Wt (lb/ft)	20	26	36	50	61	69	75	84	102	103	141	143	145	146
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32			Self Wt (lb/ft)	18	25	35	42	52	69	70	77	86	103	104	121	143	146	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
36		Self Wt (lb/ft)	18	22	32	39	48	55	71	72	77	88	105	105	106	129		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)																	
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105				
32	5 N @ 6.4	24	Self Wt (lb/ft)	20	34	48	66	77	98	108	139	141	181	185	193						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
		28	Self Wt (lb/ft)	18	31	45	60	67	79	101	119	126	144	147	184	186	195				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		32	Self Wt (lb/ft)	18	26	40	51	69	72	82	96	105	126	148	149	150	189				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		36	Self Wt (lb/ft)	18	24	37	49	63	72	75	83	98	107	118	135	151	150				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
32	6 N @ 5.33	24	Self Wt (lb/ft)	21	44	66	72	98	118	140	180	182	184								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		28	Self Wt (lb/ft)	19	34	52	69	83	102	120	142	146	184	186	189						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		32	Self Wt (lb/ft)	18	32	48	69	71	86	104	123	144	149	150	189	193	201				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		36	Self Wt (lb/ft)	21	29	45	57	72	79	89	107	125	150	152	153	194	197				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
32	8 N @ 4	24	Self Wt (lb/ft)	26	51	72	100	139	178	183											
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		28	Self Wt (lb/ft)	24	47	69	85	103	143	146	187	190									
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		32	Self Wt (lb/ft)	23	43	69	77	104	124	146	152	198	209								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		36	Self Wt (lb/ft)	22	39	58	74	91	108	130	154	172	212	214	220						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
35	4 N @ 8.75	24	Self Wt (lb/ft)	18	30	46	65	68	88	97	120	137	139	176	178	179					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		28	Self Wt (lb/ft)	18	29	40	56	67	70	89	99	110	138	140	141	180	180				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		32	Self Wt (lb/ft)	17	28	41	51	61	69	75	85	102	104	122	142	144	146				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		36	Self Wt (lb/ft)	17	24	34	44	53	64	69	77	87	105	106	119	131	147				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
35	5 N @ 7	24	Self Wt (lb/ft)	21	39	58	69	89	107	137	139	159	180	184							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		28	Self Wt (lb/ft)	20	34	49	66	71	90	100	124	141	143	182	185	194					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		32	Self Wt (lb/ft)	18	30	42	60	69	79	93	102	125	144	148	166	187	188				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		36	Self Wt (lb/ft)	18	26	41	51	63	73	82	96	104	121	131	150	150	171				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
35	6 N @ 5.83	24	Self Wt (lb/ft)	23	44	65	80	98	138	139	180	181									
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		28	Self Wt (lb/ft)	21	40	59	70	83	101	140	143	183	185	186							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		32	Self Wt (lb/ft)	21	34	50	69	75	102	104	142	145	149	185	189	199					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		36	Self Wt (lb/ft)	18	32	48	63	72	86	105	106	144	150	150	189	192	200				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder	Joist Spacing (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)															
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		
35	7 N @ 5	24	Self Wt (lb/ft)	25	50	71	97	137	139	180	182								
			BC Braces	1	1	1	1	1	1	1	1	1							
		28	Self Wt (lb/ft)	24	45	67	82	101	139	141	183	184							
			BC Braces	1	1	1	1	1	1	1	1	1							
		32	Self Wt (lb/ft)	22	41	60	72	94	104	142	148	185	189	208					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		36	Self Wt (lb/ft)	21	35	53	70	82	105	116	146	151	171	193	197				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1				
35	8 N @ 4.38	24	Self Wt (lb/ft)	30	64	81	115	139	177	182									
			BC Braces	1	1	1	1	1	1	1	1								
		28	Self Wt (lb/ft)	26	50	69	99	119	142	183	185								
			BC Braces	1	1	1	1	1	1	1	1								
		32	Self Wt (lb/ft)	24	47	70	85	104	143	145	188	189							
			BC Braces	1	1	1	1	1	1	1	1	1							
		36	Self Wt (lb/ft)	23	39	57	78	89	114	147	159	196	206	212					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
38	4 N @ 9.5	32	Self Wt (lb/ft)	18	28	40	56	67	70	78	92	111	124	140	142	143	181		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		36	Self Wt (lb/ft)	17	27	41	50	62	67	73	81	94	104	118	128	145	146	146	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		40	Self Wt (lb/ft)	18	24	34	44	53	63	70	76	83	97	106	120	126	147		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	19	23	30	37	45	51	69	73	77	84	97	106	107	128		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
38	5 N @ 7.6	32	Self Wt (lb/ft)	20	32	49	60	71	90	101	116	141	143	164	184	186			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		36	Self Wt (lb/ft)	18	31	42	57	69	73	93	103	118	128	148	149	168	188		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		40	Self Wt (lb/ft)	19	29	41	51	63	72	82	95	104	119	132	150	151	172		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	18	25	36	44	53	69	75	84	98	106	121	136	152	152		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
38	6 N @ 6.33	32	Self Wt (lb/ft)	21	35	52	69	83	102	120	141	146	183	187	190				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		36	Self Wt (lb/ft)	21	34	51	70	75	86	104	122	143	149	185	189	192			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		40	Self Wt (lb/ft)	21	32	48	63	72	83	105	106	125	150	151	190	193	194		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	22	28	41	53	70	76	89	108	110	127	153	159	159	196		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
38	7 N @ 5.43	32	Self Wt (lb/ft)	22	45	67	79	101	118	142	165	184	189						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		36	Self Wt (lb/ft)	21	36	54	68	86	104	128	146	149	188	191					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		40	Self Wt (lb/ft)	22	36	53	71	78	106	108	146	151	154	193	209	210			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	22	33	48	63	79	91	109	127	153	154	162	210	214	215		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder	Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)															
					7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		
					5	10	15	20	25	30	35	40	45	50	55	60	65	70		
38	8 N @ 4.75	32	Self Wt (lb/ft)	25	47	69	84	119	142	184	187	204								
			BC Braces	1	1	1	1	1	1	1	1	1	1							
		36	Self Wt (lb/ft)	24	47	70	77	104	124	146	189	190	208							
			BC Braces	1	1	1	1	1	1	1	1	1	1							
		40	Self Wt (lb/ft)	22	40	57	78	90	114	147	158	197	208	210						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1						
		44	Self Wt (lb/ft)	24	39	56	71	87	108	124	154	161	196	198	219					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1					
40	4 N @ 10	32	Self Wt (lb/ft)	18	30	43	56	65	76	91	100	109	124	141	143	162	181			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		36	Self Wt (lb/ft)	18	28	41	50	61	68	79	92	101	113	127	142	144	145			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		40	Self Wt (lb/ft)	18	27	38	46	59	70	74	82	94	105	116	125	146	146			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		44	Self Wt (lb/ft)	18	24	30	40	51	61	67	75	82	95	105	104	119	130			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
40	4 N @ 10	32	Self Wt (lb/ft)	18	30	43	56	65	76	91	100	109	124	141	143	162	181			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		36	Self Wt (lb/ft)	18	28	41	50	61	68	79	92	101	113	127	142	144	145			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		40	Self Wt (lb/ft)	18	27	38	46	59	70	74	82	94	105	116	125	146	146			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	18	24	30	40	51	61	67	75	82	95	105	104	119	130			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
40	5 N @ 8	32	Self Wt (lb/ft)	21	35	50	68	76	91	108	126	145	146	186	196	199				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		36	Self Wt (lb/ft)	19	31	49	60	67	80	94	107	126	142	148	166	187	188			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		40	Self Wt (lb/ft)	19	31	41	51	69	73	82	96	114	128	146	150	169	171			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	18	25	36	47	61	69	79	96	106	117	120	150	152	153			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
40	6 N @ 6.67	32	Self Wt (lb/ft)	21	40	59	70	90	100	140	143	183	185	186						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1						
		36	Self Wt (lb/ft)	20	36	50	69	79	102	112	142	147	149	187	189	197				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		40	Self Wt (lb/ft)	18	32	48	70	73	87	105	123	144	150	151	189	193	205			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	21	28	41	55	70	79	89	107	125	151	152	160	193	202			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
40	8 N @ 5	32	Self Wt (lb/ft)	26	50	66	99	119	142	183	185									
			BC Braces	1	1	1	1	1	1	1	1	1								
		36	Self Wt (lb/ft)	24	48	70	85	104	143	147	188	190								
			BC Braces	1	1	1	1	1	1	1	1	1								
		40	Self Wt (lb/ft)	23	43	69	77	105	124	147	152	196	208	210						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1						
		44	Self Wt (lb/ft)	25	41	63	77	91	110	133	155	160	209	212	218					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1					

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)															
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		
40	10 N @ 4	32	Self Wt (lb/ft)	34	68	84	119	144	186										
			BC Braces	1	1	1	1	1	1										
		36	Self Wt (lb/ft)	31	60	82	105	147	169	194									
			BC Braces	1	1	1	1	1	1	1									
		40	Self Wt (lb/ft)	30	52	77	105	127	151	190	202								
			BC Braces	1	1	1	1	1	1	1	1								
		44	Self Wt (lb/ft)	25	53	71	90	111	154	160	204	210							
			BC Braces	1	1	1	1	1	1	1	1	1							
42	4 N @ 10.5	32	Self Wt (lb/ft)	19	31	47	58	66	77	91	105	123	139	141	160	180	181		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		36	Self Wt (lb/ft)	19	29	41	56	61	71	79	92	106	113	141	142	144	144	163	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		40	Self Wt (lb/ft)	19	27	41	50	62	68	78	88	95	110	114	128	145	146	146	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		44	Self Wt (lb/ft)	18	25	34	42	51	62	71	79	91	98	112	117	131	147		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		48	Self Wt (lb/ft)	20	24	33	42	49	58	67	74	82	88	98	104	119	130		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		42	5 N @ 8.4	32	Self Wt (lb/ft)	21	39	56	66	78	92	111	139	142	163	182	194		
					BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	
36	Self Wt (lb/ft)			21	32	48	60	71	86	100	110	126	142	165	184	186	196		
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1			
40	Self Wt (lb/ft)			20	31	42	57	67	77	94	102	117	128	146	149	169	189		
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1			
44	Self Wt (lb/ft)			18	27	36	50	61	70	83	95	105	118	132	150	151	171		
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1	1			
48	Self Wt (lb/ft)	20	27	36	49	59	66	75	84	98	107	118	138	154	152				
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					
42	6 N @ 7	32	Self Wt (lb/ft)	22	40	66	73	98	118	140	142	183	184						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		36	Self Wt (lb/ft)	21	35	52	69	83	102	120	141	147	185	187	190				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1				
		40	Self Wt (lb/ft)	20	36	50	70	75	94	104	123	143	150	188	189	192			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		44	Self Wt (lb/ft)	19	30	44	61	69	83	105	106	125	151	152	188	192	202		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		48	Self Wt (lb/ft)	22	31	42	57	69	79	90	107	117	127	153	159	160	203		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		42	7 N @ 6	32	Self Wt (lb/ft)	24	48	67	90	108	139	141	183	186					
					BC Braces	1	1	1	1	1	1	1	1	1	1				
36	Self Wt (lb/ft)			23	41	67	79	101	119	142	147	185	188						
	BC Braces			1	1	1	1	1	1	1	1	1	1						
40	Self Wt (lb/ft)			22	41	61	68	86	104	128	147	150	188	191					
	BC Braces			1	1	1	1	1	1	1	1	1	1	1					
44	Self Wt (lb/ft)			21	34	51	69	82	106	117	146	152	197	206	209				
	BC Braces			1	1	1	1	1	1	1	1	1	1	1	1				
48	Self Wt (lb/ft)	22	35	49	62	79	90	109	127	153	154	162	207	211	212				
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)														
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	
				5	10	15	20	25	30	35	40	45	50	55	60	65	70	
42	8 N @ 5.25	32	Self Wt (lb/ft)	26	51	72	101	139	141	183	186							
			BC Braces	1	1	1	1	1	1	1	1							
		36	Self Wt (lb/ft)	25	48	69	85	104	142	148	188	190						
			BC Braces	1	1	1	1	1	1	1	1	1						
		40	Self Wt (lb/ft)	23	47	70	77	104	124	146	152	190	207					
			BC Braces	1	1	1	1	1	1	1	1	1	1					
		44	Self Wt (lb/ft)	23	40	55	76	90	113	148	152	197	207	211				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1				
		48	Self Wt (lb/ft)	24	42	58	80	91	109	133	155	170	209	198	217			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			
42	10 N @ 4.2	32	Self Wt (lb/ft)	34	68	99	140	144	186									
			BC Braces	1	1	1	1	1	1	1								
		36	Self Wt (lb/ft)	31	60	86	114	147	187	193								
			BC Braces	1	1	1	1	1	1	1								
		40	Self Wt (lb/ft)	30	54	77	104	148	151	191								
			BC Braces	1	1	1	1	1	1	1								
		44	Self Wt (lb/ft)	28	53	77	98	119	152	177	195							
			BC Braces	1	1	1	1	1	1	1	1							
		48	Self Wt (lb/ft)	26	49	70	91	107	154	160	203	210						
			BC Braces	1	1	1	1	1	1	1	1	1						
45	4 N @ 11.25	32	Self Wt (lb/ft)	19	35	54	56	73	89	102	108	137	140	158	179	180		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		36	Self Wt (lb/ft)	19	31	43	57	66	75	90	104	110	124	141	161	162	181	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		40	Self Wt (lb/ft)	19	29	44	57	59	68	79	93	108	114	126	143	144	164	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	19	27	35	45	58	69	78	89	95	109	115	129	145	146	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		48	Self Wt (lb/ft)	20	25	36	45	56	62	72	80	90	96	104	119	128	147	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
52	Self Wt (lb/ft)	20	26	33	43	49	58	71	72	81	92	97	105	120	123			
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1				
45	5 N @ 9	32	Self Wt (lb/ft)	21	38	58	69	89	103	123	139	159	180	182				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1				
		36	Self Wt (lb/ft)	21	39	50	67	76	91	107	126	145	166	168	194			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			
		40	Self Wt (lb/ft)	21	32	49	61	68	79	93	115	126	142	145	167	187	188	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	18	29	39	56	68	77	94	103	116	128	146	150	169	189	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		48	Self Wt (lb/ft)	20	30	38	50	62	70	83	96	105	117	132	151	152	172	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
52	Self Wt (lb/ft)	20	29	37	49	58	70	76	85	99	113	123	139	155	154			
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1				

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder	Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)														
					7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	
					5	10	15	20	25	30	35	40	45	50	55	60	65	70	
45	6 N @ 7.5	32	Self Wt (lb/ft)	25	48	67	82	108	138	141	180	185							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		36	Self Wt (lb/ft)	22	41	59	71	91	108	140	143	184	183	186					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		40	Self Wt (lb/ft)	21	36	51	69	80	102	112	142	147	185	187	191				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		44	Self Wt (lb/ft)	20	32	46	68	73	86	105	123	144	152	173	190	198	205		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		48	Self Wt (lb/ft)	21	32	45	59	74	83	106	107	126	152	154	157	198	203		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		52	Self Wt (lb/ft)	22	31	44	54	69	77	90	108	117	128	156	160	161	202		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45	7 N @ 6.43	32	Self Wt (lb/ft)	25	48	68	98	122	140	181	183								
			BC Braces	1	1	1	1	1	1	1	1	1	1						
		36	Self Wt (lb/ft)	24	45	67	83	100	139	142	183	186							
			BC Braces	1	1	1	1	1	1	1	1	1	1						
		40	Self Wt (lb/ft)	24	42	60	75	94	111	142	148	187	187						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		44	Self Wt (lb/ft)	22	36	53	69	87	105	124	147	152	194	202	206				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		48	Self Wt (lb/ft)	22	35	53	68	78	97	109	133	152	157	198	206	208			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		52	Self Wt (lb/ft)	22	33	49	62	78	91	110	123	157	160	165	208	211	212		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45	8 N @ 5.63	32	Self Wt (lb/ft)	30	57	81	99	139	178	183									
			BC Braces	1	1	1	1	1	1	1	1	1							
		36	Self Wt (lb/ft)	26	50	71	100	119	142	183	186								
			BC Braces	1	1	1	1	1	1	1	1	1							
		40	Self Wt (lb/ft)	25	47	70	85	104	143	147	188	191							
			BC Braces	1	1	1	1	1	1	1	1	1	1						
		44	Self Wt (lb/ft)	23	41	68	78	105	124	147	153	195	207						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		48	Self Wt (lb/ft)	24	38	57	74	90	112	135	154	163	208	210					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1				
		52	Self Wt (lb/ft)	24	42	58	77	88	109	122	154	161	178	199	217				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
45	10 N @ 4.5	32	Self Wt (lb/ft)	35	67	99	139	179	187										
			BC Braces	1	1	1	1	1	1	1	1								
		36	Self Wt (lb/ft)	35	68	84	119	144	187										
			BC Braces	1	1	1	1	1	1	1	1								
		40	Self Wt (lb/ft)	31	61	81	114	148	187	194									
			BC Braces	1	1	1	1	1	1	1	1	1							
		44	Self Wt (lb/ft)	30	51	78	104	132	151	190	201								
			BC Braces	1	1	1	1	1	1	1	1	1							
		48	Self Wt (lb/ft)	28	52	77	98	119	152	177	203	210							
			BC Braces	1	1	1	1	1	1	1	1	1	1						
		52	Self Wt (lb/ft)	27	48	73	88	107	140	160	184	208							
			BC Braces	1	1	1	1	1	1	1	1	1	1						

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder	Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)																
					7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105			
					5	10	15	20	25	30	35	40	45	50	55	60	65	70			
48	5 N @ 9.6	36	Self Wt (lb/ft)	22	38	56	65	86	99	120	139	142	162	183							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					
		40	Self Wt (lb/ft)	22	38	49	59	75	91	106	121	141	143	165	185	186					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		44	Self Wt (lb/ft)	18	32	44	59	68	79	93	107	122	143	146	167	187	188				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		48	Self Wt (lb/ft)	20	31	44	54	68	77	90	96	109	129	147	150	170	172				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		52	Self Wt (lb/ft)	21	30	42	53	63	70	80	96	106	119	134	151	153	173				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		56	Self Wt (lb/ft)	21	29	38	49	58	70	80	93	100	113	120	139	155	154				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48	6 N @ 8	36	Self Wt (lb/ft)	24	48	67	78	100	124	141	162	184									
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		40	Self Wt (lb/ft)	22	40	60	71	91	101	125	142	147	185	187							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1						
		44	Self Wt (lb/ft)	21	35	49	67	80	102	111	143	146	150	188	190	198					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		48	Self Wt (lb/ft)	21	33	49	66	73	87	105	116	145	152	154	190	198	201				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		52	Self Wt (lb/ft)	21	32	46	60	74	84	99	107	125	153	154	160	199	202				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		56	Self Wt (lb/ft)	22	31	43	54	69	77	90	108	118	129	158	161	162	202				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48	8 N @ 6	36	Self Wt (lb/ft)	29	51	73	100	139	142	183	187										
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		40	Self Wt (lb/ft)	26	50	70	92	120	142	184	192	199									
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		44	Self Wt (lb/ft)	23	43	68	86	105	143	148	192	199	205								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		48	Self Wt (lb/ft)	23	41	63	78	105	116	148	153	198	206	210							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1						
		52	Self Wt (lb/ft)	25	45	61	79	98	120	138	155	162	195	211							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1						
		56	Self Wt (lb/ft)	25	43	59	77	88	108	124	155	161	178	210	218						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					
48	9 N @ 5.33	36	Self Wt (lb/ft)	31	66	83	117	140	183	189											
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		40	Self Wt (lb/ft)	30	53	76	103	141	145	187											
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		44	Self Wt (lb/ft)	25	50	72	96	123	147	171	202										
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		48	Self Wt (lb/ft)	28	51	71	95	118	150	153	195	207									
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		52	Self Wt (lb/ft)	28	51	71	87	110	140	163	186	209	222								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		56	Self Wt (lb/ft)	27	48	69	83	105	128	160	170	195	217								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1						

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder	Joist Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)																
					7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105			
					5	10	15	20	25	30	35	40	45	50	55	60	65	70			
48	10 N @ 4.8	36	Self Wt (lb/ft)	34	68	100	140	143	186												
			BC Braces	1	1	1	1	1	1												
		40	Self Wt (lb/ft)	32	68	85	122	145	187	200											
			BC Braces	1	1	1	1	1	1	1											
		44	Self Wt (lb/ft)	29	59	81	104	146	169	202											
			BC Braces	1	1	1	1	1	1	1											
		48	Self Wt (lb/ft)	29	53	77	104	130	151	190	201										
			BC Braces	1	1	1	1	1	1	1	1										
		52	Self Wt (lb/ft)	30	52	74	100	119	154	160	203	208									
			BC Braces	1	1	1	1	1	1	1	1	1									
		56	Self Wt (lb/ft)	28	51	73	89	108	140	161	184	206									
			BC Braces	1	1	1	1	1	1	1	1	1									
50	5 N @ 10	40	Self Wt (lb/ft)	22	39	58	67	78	94	107	126	144	165	166	194						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					
		44	Self Wt (lb/ft)	19	32	44	59	70	87	93	111	127	143	166	167	187	184				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		48	Self Wt (lb/ft)	21	31	44	58	68	78	94	107	114	133	146	169	170	189				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1				
		52	Self Wt (lb/ft)	20	31	44	53	65	73	91	96	111	126	134	151	171	172				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1				
		56	Self Wt (lb/ft)	21	31	42	49	63	70	81	94	100	112	129	139	158	173				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1				
		60	Self Wt (lb/ft)	21	30	38	48	58	67	76	94	100	114	114	138	141	157				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1				
50	6 N @ 8.33	40	Self Wt (lb/ft)	23	41	60	71	91	108	140	142	184	185	187							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1						
		44	Self Wt (lb/ft)	20	35	49	67	80	103	112	143	148	186	188	191						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					
		48	Self Wt (lb/ft)	22	34	49	66	76	95	104	125	148	152	188	190	199					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					
		52	Self Wt (lb/ft)	21	33	48	60	74	83	106	117	131	153	156	192	198	202				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1				
		56	Self Wt (lb/ft)	22	32	45	60	69	84	99	106	119	154	156	160	201	202				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
		60	Self Wt (lb/ft)	22	31	44	55	69	77	87	109	112	131	160	163	164	202				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1				
50	8 N @ 6.25	40	Self Wt (lb/ft)	27	50	71	100	119	143	184	190										
			BC Braces	1	1	1	1	1	1	1	1										
		44	Self Wt (lb/ft)	24	46	68	86	104	143	148	193	199									
			BC Braces	1	1	1	1	1	1	1	1	1									
		48	Self Wt (lb/ft)	24	42	63	83	105	124	148	156	197	206								
			BC Braces	1	1	1	1	1	1	1	1	1	1								
		52	Self Wt (lb/ft)	24	41	60	79	98	111	149	159	200	206	209							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		56	Self Wt (lb/ft)	28	45	61	80	98	109	133	156	164	196	210							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1							
		60	Self Wt (lb/ft)	27	42	59	77	88	109	123	156	162	183	207	210						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1						

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder	Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)																
					7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105			
					5	10	15	20	25	30	35	40	45	50	55	60	65	70			
50	10 N @ 5	40	Self Wt (lb/ft)	35	68	85	119	144	187												
			BC Braces	1	1	1	1	1	1												
		44	Self Wt (lb/ft)	32	59	81	114	148	187	194											
			BC Braces	1	1	1	1	1	1	1	1										
		48	Self Wt (lb/ft)	30	58	77	104	132	151	191											
			BC Braces	1	1	1	1	1	1	1	1										
		52	Self Wt (lb/ft)	30	52	77	98	119	152	177	195										
			BC Braces	1	1	1	1	1	1	1	1	1									
		56	Self Wt (lb/ft)	31	53	76	92	119	155	161	203	208									
			BC Braces	1	1	1	1	1	1	1	1	1	1								
		60	Self Wt (lb/ft)	30	51	74	89	109	133	159	183	203	211								
			BC Braces	1	1	1	1	1	1	1	1	1	1								
50	12 N @ 4.17	40	Self Wt (lb/ft)	41	72	103	145	187													
			BC Braces	1	1	1	1	1													
		44	Self Wt (lb/ft)	36	69	103	144	188	195												
			BC Braces	1	1	1	1	1	1	1											
		48	Self Wt (lb/ft)	35	65	89	126	154	198	205											
			BC Braces	1	1	1	1	1	1	1	1										
		52	Self Wt (lb/ft)	33	63	86	110	155	197	205											
			BC Braces	1	1	1	1	1	1	1	1										
		56	Self Wt (lb/ft)	32	60	84	110	157	165	204	212										
			BC Braces	1	1	1	1	1	1	1	1	1									
		60	Self Wt (lb/ft)	31	58	82	116	135	168	208	212										
			BC Braces	1	1	1	1	1	1	1	1	1									
55	5 N @ 11	44	Self Wt (lb/ft)	21	38	55	67	85	94	108	133	144	166	167	195						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					
		48	Self Wt (lb/ft)	23	35	49	63	76	88	103	121	133	144	167	168	188					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
		52	Self Wt (lb/ft)	22	33	45	60	68	84	95	108	124	134	148	169	170	190				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		56	Self Wt (lb/ft)	22	32	45	57	65	78	92	104	111	127	135	152	169	173				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		60	Self Wt (lb/ft)	22	32	45	53	66	74	91	98	111	126	135	139	154	173				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		66	Self Wt (lb/ft)	21	32	41	49	64	72	85	95	101	115	115	141	142	158				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
55	6 N @ 9.17	44	Self Wt (lb/ft)	24	40	58	71	91	110	141	143	185	186	188							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1						
		48	Self Wt (lb/ft)	23	38	54	72	84	102	123	143	149	188	189	192						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1						
		52	Self Wt (lb/ft)	23	35	49	69	81	96	113	129	148	153	189	191	199					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1					
		56	Self Wt (lb/ft)	22	33	50	63	74	96	104	117	146	154	156	192	201	201				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1				
		60	Self Wt (lb/ft)	23	33	50	61	72	86	101	114	127	155	157	179	199	202				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
		66	Self Wt (lb/ft)	23	33	46	58	69	78	90	110	121	132	160	164	165	202				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1			

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder	Joist Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)														
					7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	
					5	10	15	20	25	30	35	40	45	50	55	60	65	70	
55	8 N @ 6.88	44	Self Wt (lb/ft)	25	47	71	101	120	144	186	191								
			BC Braces	1	1	1	1	1	1	1	1								
		48	Self Wt (lb/ft)	26	49	66	86	113	144	150	194	199							
			BC Braces	1	1	1	1	1	1	1	1	1							
		52	Self Wt (lb/ft)	25	45	66	83	105	126	149	178	198	205						
			BC Braces	1	1	1	1	1	1	1	1	1	1						
		56	Self Wt (lb/ft)	25	42	60	78	99	120	153	159	201	206	207					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		60	Self Wt (lb/ft)	30	47	66	80	99	118	139	157	177	201	211					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		66	Self Wt (lb/ft)	27	43	61	78	90	110	124	143	162	186	207	211				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1				
55	9 N @ 6.11	44	Self Wt (lb/ft)	29	58	80	103	142	168	193									
			BC Braces	1	1	1	1	1	1	1									
		48	Self Wt (lb/ft)	29	51	72	104	128	148	193	200								
			BC Braces	1	1	1	1	1	1	1	1								
		52	Self Wt (lb/ft)	32	54	75	98	120	149	177	201	207							
			BC Braces	1	1	1	1	1	1	1	1	1							
		56	Self Wt (lb/ft)	31	50	73	96	116	137	156	196	205							
			BC Braces	1	1	1	1	1	1	1	1	1							
		60	Self Wt (lb/ft)	30	51	74	87	108	139	157	180	203							
			BC Braces	1	1	1	1	1	1	1	1	1							
		66	Self Wt (lb/ft)	28	50	70	84	109	125	147	166	192	216						
			BC Braces	1	1	1	1	1	1	1	1	1	1						
55	11 N @ 5	44	Self Wt (lb/ft)	36	72	102	144	186	193										
			BC Braces	1	1	1	1	1	1										
		48	Self Wt (lb/ft)	36	67	96	131	158	201										
			BC Braces	1	1	1	1	1	1										
		52	Self Wt (lb/ft)	35	61	89	120	154	200	205									
			BC Braces	1	1	1	1	1	1	1									
		56	Self Wt (lb/ft)	33	62	86	110	157	164	208									
			BC Braces	1	1	1	1	1	1	1									
		60	Self Wt (lb/ft)	34	57	82	112	141	166	202	212								
			BC Braces	1	1	1	1	1	1	1	1								
		66	Self Wt (lb/ft)	33	57	80	107	127	163	170	213	219							
			BC Braces	1	1	1	1	1	1	1	1	1							
55	12 N @ 4.58	44	Self Wt (lb/ft)	41	72	103	146	188											
			BC Braces	1	1	1	1	1											
		48	Self Wt (lb/ft)	37	70	104	144	189	194										
			BC Braces	1	1	1	1	1	1										
		52	Self Wt (lb/ft)	35	68	97	127	154	199										
			BC Braces	1	1	1	1	1	1										
		56	Self Wt (lb/ft)	35	63	91	120	155	197	203									
			BC Braces	1	1	1	1	1	1	1									
		60	Self Wt (lb/ft)	33	64	84	110	157	165	205	212								
			BC Braces	1	1	1	1	1	1	1	1								
		66	Self Wt (lb/ft)	33	59	83	112	138	168	208	213								
			BC Braces	1	1	1	1	1	1	1	1								

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)														
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	
				5	10	15	20	25	30	35	40	45	50	55	60	65	70	
60	6 N @ 10	48	Self Wt (lb/ft)	25	44	60	76	92	111	141	143	167	186					
		BC Braces	2	1	1	1	1	1	1	1	1	1	1	1				
		52	Self Wt (lb/ft)	24	40	56	72	92	106	127	144	150	188	189				
		BC Braces	2	1	1	1	1	1	1	1	1	1	1	1				
		56	Self Wt (lb/ft)	23	37	55	69	81	96	116	130	149	171	190	191			
		BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1			
	60	Self Wt (lb/ft)	23	35	50	69	81	97	111	117	148	154	175	192	200			
	BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1			
	66	Self Wt (lb/ft)	25	34	50	65	73	87	101	114	135	155	157	179	199	202		
	BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	72	Self Wt (lb/ft)	24	35	50	59	74	83	99	111	121	141	162	165	183	184		
	BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
60	8 N @ 7.5	48	Self Wt (lb/ft)	28	50	71	101	126	144	188	193							
		BC Braces	1	1	1	1	1	1	1	1	1							
		52	Self Wt (lb/ft)	27	49	73	94	113	145	153	192	199						
		BC Braces	2	1	1	1	1	1	1	1	1	1						
		56	Self Wt (lb/ft)	26	45	67	83	106	132	152	177	200	204					
		BC Braces	2	1	1	1	1	1	1	1	1	1	1					
	60	Self Wt (lb/ft)	25	44	64	80	107	120	154	160	200	205						
	BC Braces	2	1	1	1	1	1	1	1	1	1	1						
	66	Self Wt (lb/ft)	31	48	70	85	102	118	141	158	178	200	207					
	BC Braces	2	1	1	1	1	1	1	1	1	1	1	1					
	72	Self Wt (lb/ft)	31	47	68	79	98	119	126	146	166	186	208	215				
	BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1				
60	10 N @ 6	48	Self Wt (lb/ft)	33	61	94	121	147	193									
		BC Braces	1	1	1	1	1	1	1									
		52	Self Wt (lb/ft)	35	61	93	115	149	188									
		BC Braces	1	1	1	1	1	1										
		56	Self Wt (lb/ft)	33	62	82	112	148	169	193								
		BC Braces	1	1	1	1	1	1	1									
	60	Self Wt (lb/ft)	33	58	82	106	132	153	192	204								
	BC Braces	2	1	1	1	1	1	1	1									
	66	Self Wt (lb/ft)	33	54	75	101	120	156	180	198								
	BC Braces	2	1	1	1	1	1	1	1									
	72	Self Wt (lb/ft)	32	53	78	92	111	142	162	184	206							
	BC Braces	2	1	1	1	1	1	1	1	1								
60	12 N @ 5	48	Self Wt (lb/ft)	40	71	114	147	187										
		BC Braces	1	1	1	1	1											
		52	Self Wt (lb/ft)	38	73	105	145	189	194									
		BC Braces	1	1	1	1	1	1										
		56	Self Wt (lb/ft)	35	68	97	131	155	198									
		BC Braces	1	1	1	1	1	1										
	60	Self Wt (lb/ft)	35	69	91	120	155	195	205									
	BC Braces	1	1	1	1	1	1	1										
	66	Self Wt (lb/ft)	34	64	90	111	158	165	205	212								
	BC Braces	1	1	1	1	1	1	1	1	1								
	72	Self Wt (lb/ft)	34	60	85	113	139	169	190	214								
	BC Braces	1	1	1	1	1	1	1	1	1								

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)														
				7.5 5	15 10	22.5 15	30 20	37.5 25	45 30	52.5 35	60 40	67.5 45	75 50	82.5 55	90 60	97.5 65	105 70	
60	15 N @ 4	48	Self Wt (lb/ft)	49	94	146	195											
			BC Braces	1	1	1	1											
		52	Self Wt (lb/ft)	46	88	133	196											
			BC Braces	1	1	1	1											
		56	Self Wt (lb/ft)	43	81	121	158	203										
			BC Braces	1	1	1	1	1										
		60	Self Wt (lb/ft)	42	80	113	159	202										
			BC Braces	1	1	1	1	1										
		66	Self Wt (lb/ft)	41	75	113	161	186	214									
			BC Braces	1	1	1	1	1	1									
		72	Self Wt (lb/ft)	42	74	103	139	171	213	221								
			BC Braces	1	1	1	1	1	1	1								
65	6 N @ 10.83	52	Self Wt (lb/ft)	26	44	62	76	93	112	141	144	167	187					
			BC Braces	2	1	1	1	1	1	1	1	1	1	1				
		56	Self Wt (lb/ft)	25	44	60	72	93	108	127	145	168	188	189				
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1			
		60	Self Wt (lb/ft)	24	39	54	70	89	97	116	135	149	172	190	192			
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1		
		66	Self Wt (lb/ft)	24	38	54	67	82	98	112	128	148	155	176	193	200		
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
		72	Self Wt (lb/ft)	26	36	50	65	74	95	101	116	135	156	158	180	199	204	
			BC Braces	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		65	8 N @ 8.13	52	Self Wt (lb/ft)	30	54	72	102	127	145	188	193					
					BC Braces	1	1	1	1	1	1	1	1	1				
56	Self Wt (lb/ft)			28	50	73	94	113	146	171	193	200						
	BC Braces			2	1	1	1	1	1	1	1	1	1					
60	Self Wt (lb/ft)			26	48	68	83	105	133	152	196	198						
	BC Braces			2	1	1	1	1	1	1	1	1	1					
66	Self Wt (lb/ft)			26	45	64	84	101	122	154	160	200	206					
	BC Braces			2	1	1	1	1	1	1	1	1	1	1				
72	Self Wt (lb/ft)			41	50	71	86	104	121	142	159	178	200					
	BC Braces			1	1	1	1	1	1	1	1	1	1	1				
65	10 N @ 6.5			52	Self Wt (lb/ft)	35	65	93	121	150	193							
					BC Braces	1	1	1	1	1	1							
		56	Self Wt (lb/ft)	36	65	93	116	149	189									
			BC Braces	1	1	1	1	1	1									
		60	Self Wt (lb/ft)	34	62	89	113	148	172	193								
			BC Braces	1	1	1	1	1	1	1								
		66	Self Wt (lb/ft)	34	58	83	101	132	154	178	200							
			BC Braces	2	1	1	1	1	1	1	1							
		72	Self Wt (lb/ft)	34	57	76	102	121	158	180	201							
			BC Braces	2	1	1	1	1	1	1	1	1						

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)															
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		
				5	10	15	20	25	30	35	40	45	50	55	60	65	70		
65	11 N @ 5.91	52	Self Wt (lb/ft)	42	73	103	145	188											
			BC Braces	1	1	1	1	1											
		56	Self Wt (lb/ft)	38	70	97	131	170	192										
			BC Braces	1	1	1	1	1	1										
		60	Self Wt (lb/ft)	37	64	98	120	156	196										
			BC Braces	1	1	1	1	1	1										
		66	Self Wt (lb/ft)	36	66	88	120	158	179	207									
			BC Braces	1	1	1	1	1	1	1									
		72	Self Wt (lb/ft)	36	63	84	108	144	163	184	213								
			BC Braces	2	1	1	1	1	1	1	1								
65	13 N @ 5	52	Self Wt (lb/ft)	44	81	124	174	197											
			BC Braces	1	1	1	1	1											
		56	Self Wt (lb/ft)	42	76	118	152	198											
			BC Braces	1	1	1	1	1											
		60	Self Wt (lb/ft)	42	77	106	153	196											
			BC Braces	1	1	1	1	1											
		66	Self Wt (lb/ft)	39	72	102	139	161	202										
			BC Braces	1	1	1	1	1	1										
		72	Self Wt (lb/ft)	39	66	93	127	162	204	215									
			BC Braces	1	1	1	1	1	1	1	1								
70	7 N @ 10	56	Self Wt (lb/ft)	28	50	67	92	108	132	164	188								
			BC Braces	2	1	1	1	1	1	1	1								
		60	Self Wt (lb/ft)	28	47	67	89	107	128	145	169	191							
			BC Braces	2	1	1	1	1	1	1	1	1							
		66	Self Wt (lb/ft)	30	46	62	81	97	112	136	153	173	193						
			BC Braces	2	2	1	1	1	1	1	1	1	1						
		72	Self Wt (lb/ft)	27	42	61	73	95	113	131	151	176	180	199					
			BC Braces	2	2	1	1	1	1	1	1	1	1	1					
		78	Self Wt (lb/ft)	29	42	58	73	85	104	118	139	157	180	185	207				
			BC Braces	2	2	1	1	1	1	1	1	1	1	1	1				
70	9 N @ 7.78	56	Self Wt (lb/ft)	32	57	81	111	144	171	193									
			BC Braces	2	1	1	1	1	1	1									
		60	Self Wt (lb/ft)	31	56	82	103	132	151	194									
			BC Braces	2	1	1	1	1	1	1									
		66	Self Wt (lb/ft)	35	60	81	110	121	153	179	203								
			BC Braces	2	1	1	1	1	1	1	1								
		72	Self Wt (lb/ft)	35	56	75	97	118	143	178	180								
			BC Braces	2	1	1	1	1	1	1	1								
		78	Self Wt (lb/ft)	35	57	76	98	120	139	161	184	207							
			BC Braces	2	1	1	1	1	1	1	1	1							
70	10 N @ 7	56	Self Wt (lb/ft)	35	65	94	121	151	193										
			BC Braces	2	1	1	1	1	1										
		60	Self Wt (lb/ft)	38	65	96	117	153	195	203									
			BC Braces	2	1	1	1	1	1	1									
		66	Self Wt (lb/ft)	35	63	90	113	149	170	193									
			BC Braces	2	1	1	1	1	1	1									
		72	Self Wt (lb/ft)	34	63	83	110	133	158	178									
			BC Braces	2	1	1	1	1	1	1									
		78	Self Wt (lb/ft)	35	61	78	103	122	158	181	202								
			BC Braces	2	1	1	1	1	1	1	1								

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)															
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		
				5	10	15	20	25	30	35	40	45	50	55	60	65	70		
70	11 N @ 6.36	56	Self Wt (lb/ft)	42	73	110	146	188											
			BC Braces	2	1	1	1	1											
		60	Self Wt (lb/ft)	40	70	97	132	170	193										
			BC Braces	2	1	1	1	1	1										
		66	Self Wt (lb/ft)	38	69	98	121	156	197										
			BC Braces	2	1	1	1	1	1										
		72	Self Wt (lb/ft)	36	67	89	120	159	180	207									
			BC Braces	2	1	1	1	1	1	1									
		78	Self Wt (lb/ft)	37	63	89	109	145	163	186	215								
			BC Braces	2	1	1	1	1	1	1	1								
70	12 N @ 5.83	56	Self Wt (lb/ft)	42	72	114	148	189											
			BC Braces	1	1	1	1	1											
		60	Self Wt (lb/ft)	41	73	105	146	190											
			BC Braces	2	1	1	1	1											
		66	Self Wt (lb/ft)	38	72	99	133	155	197										
			BC Braces	2	1	1	1	1	1										
		72	Self Wt (lb/ft)	37	67	93	122	157	198	206									
			BC Braces	2	1	1	1	1	1	1									
		78	Self Wt (lb/ft)	37	66	91	113	162	167	206									
			BC Braces	2	1	1	1	1	1	1	1								
70	14 N @ 5	56	Self Wt (lb/ft)	48	86	143	187												
			BC Braces	1	1	1	1												
		60	Self Wt (lb/ft)	47	82	125	171	196											
			BC Braces	1	1	1	1	1											
		66	Self Wt (lb/ft)	43	78	119	154	198											
			BC Braces	2	1	1	1	1											
		72	Self Wt (lb/ft)	41	75	109	158	183	206										
			BC Braces	2	1	1	1	1	1										
		78	Self Wt (lb/ft)	42	74	106	137	166	209										
			BC Braces	2	1	1	1	1	1										
75	8 N @ 9.38	56	Self Wt (lb/ft)	31	59	79	106	143	164	189									
			BC Braces	2	1	1	1	1	1										
		60	Self Wt (lb/ft)	31	54	78	101	129	147	190	195								
			BC Braces	2	2	1	1	1	1	1	1	1							
		66	Self Wt (lb/ft)	31	51	72	97	116	149	173	195	201							
			BC Braces	2	2	1	1	1	1	1	1	1	1						
		72	Self Wt (lb/ft)	30	49	73	86	107	135	154	180	202							
			BC Braces	2	2	1	1	1	1	1	1	1	1						
		78	Self Wt (lb/ft)	30	49	67	85	106	124	157	164	185	210						
			BC Braces	2	2	1	1	1	1	1	1	1	1	1					
75	10 N @ 7.5	56	Self Wt (lb/ft)	37	68	102	145	169	194										
			BC Braces	2	1	1	1	1	1										
		60	Self Wt (lb/ft)	35	66	96	131	152	196										
			BC Braces	2	1	1	1	1	1										
		66	Self Wt (lb/ft)	39	66	94	126	152	173										
			BC Braces	2	1	1	1	1	1										
		72	Self Wt (lb/ft)	37	67	92	115	142	175	195									
			BC Braces	2	1	1	1	1	1	1									
		78	Self Wt (lb/ft)	36	64	85	112	135	159	184									
			BC Braces	2	2	1	1	1	1	1	1								

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)														
				7.5 5	15 10	22.5 15	30 20	37.5 25	45 30	52.5 35	60 40	67.5 45	75 50	82.5 55	90 60	97.5 65	105 70	
75	12 N @ 6.25	56	Self Wt (lb/ft)	47	81	128	169	191										
			BC Braces	2	1	1	1	1										
		60	Self Wt (lb/ft)	46	77	116	149	192										
			BC Braces	2	1	1	1	1										
		66	Self Wt (lb/ft)	43	72	107	148	175										
			BC Braces	2	1	1	1	1										
		72	Self Wt (lb/ft)	41	74	101	135	157	199									
			BC Braces	2	1	1	1	1	1									
		78	Self Wt (lb/ft)	39	69	99	125	161	184	208								
			BC Braces	2	1	1	1	1	1	1								
75	15 N @ 5	56	Self Wt (lb/ft)	55	101	149	196											
			BC Braces	2	1	1	1	1										
		60	Self Wt (lb/ft)	51	96	149	194											
			BC Braces	2	1	1	1	1										
		66	Self Wt (lb/ft)	51	87	135	176											
			BC Braces	2	1	1	1	1										
		72	Self Wt (lb/ft)	47	82	124	162	204										
			BC Braces	2	1	1	1	1	1									
		78	Self Wt (lb/ft)	46	83	114	164	206										
			BC Braces	2	1	1	1	1	1									
80	8 N @ 10	60	Self Wt (lb/ft)	31	59	80	107	144	164	189								
			BC Braces	2	1	1	1	1	1	1								
		66	Self Wt (lb/ft)	32	55	78	96	130	147	172	196							
			BC Braces	2	2	1	1	1	1	1	1							
		72	Self Wt (lb/ft)	33	55	72	98	118	151	175	198	203						
			BC Braces	2	2	1	1	1	1	1	1	1						
		78	Self Wt (lb/ft)	32	50	73	96	114	136	155	182	203						
			BC Braces	2	2	1	1	1	1	1	1	1						
		84	Self Wt (lb/ft)	34	51	69	87	106	124	159	165	186	208					
			BC Braces	2	2	1	1	1	1	1	1	1	1					
90	Self Wt (lb/ft)	57	62	74	95	114	134	148	181	190								
	BC Braces	2	2	1	1	1	1	1	1	1	1							
80	10 N @ 8	60	Self Wt (lb/ft)	38	69	103	146	169	194									
			BC Braces	2	1	1	1	1	1									
		66	Self Wt (lb/ft)	36	67	96	125	153	196									
			BC Braces	2	1	1	1	1	1									
		72	Self Wt (lb/ft)	42	68	95	127	151	174									
			BC Braces	2	1	1	1	1	1									
		78	Self Wt (lb/ft)	39	66	93	116	142	176	196								
			BC Braces	2	2	1	1	1	1	1								
		84	Self Wt (lb/ft)	38	67	86	113	137	179	185								
			BC Braces	2	2	1	1	1	1	1								
90	Self Wt (lb/ft)	38	64	84	105	133	148	184	207									
	BC Braces	2	2	1	1	1	1	1	1	1								

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder	Joist Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)															
					7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		
					5	10	15	20	25	30	35	40	45	50	55	60	65	70		
80	12 N @ 6.67	60	Self Wt (lb/ft)	47	82	128	169													
			BC Braces	2	1	1	1													
		66	Self Wt (lb/ft)	46	79	117	149	192												
			BC Braces	2	1	1	1	1												
		72	Self Wt (lb/ft)	44	74	108	149	176	201											
			BC Braces	2	1	1	1	1	1											
		78	Self Wt (lb/ft)	44	75	103	136	159	200											
			BC Braces	2	1	1	1	1	1											
		84	Self Wt (lb/ft)	40	70	100	125	162	186	209										
			BC Braces	2	1	1	1	1	1	1										
		90	Self Wt (lb/ft)	39	71	94	124	150	191	210										
			BC Braces	2	1	1	1	1	1	1										
80	14 N @ 5.71	60	Self Wt (lb/ft)	53	93	145	189													
			BC Braces	2	1	1	1													
		66	Self Wt (lb/ft)	49	84	131	172													
			BC Braces	2	1	1	1													
		72	Self Wt (lb/ft)	48	83	122	155	199												
			BC Braces	2	1	1	1	1												
		78	Self Wt (lb/ft)	46	80	119	160	202												
			BC Braces	2	1	1	1	1												
		84	Self Wt (lb/ft)	43	78	113	147	187	209											
			BC Braces	2	1	1	1	1	1											
		90	Self Wt (lb/ft)	42	79	109	147	169	212											
			BC Braces	2	1	1	1	1	1											
80	16 N @ 5	60	Self Wt (lb/ft)	58	101	149														
			BC Braces	1	1	1														
		66	Self Wt (lb/ft)	53	99	151	197													
			BC Braces	2	1	1	1													
		72	Self Wt (lb/ft)	52	92	153	201													
			BC Braces	2	1	1	1													
		78	Self Wt (lb/ft)	49	89	136	165	209												
			BC Braces	2	1	1	1	1												
		84	Self Wt (lb/ft)	49	86	127	168	210												
			BC Braces	2	1	1	1	1												
		90	Self Wt (lb/ft)	49	88	119	171	215	224											
			BC Braces	2	1	1	1	1	1											
90	9 N @ 10	72	Self Wt (lb/ft)	41	65	92	116	148	174											
			BC Braces	2	2	1	1	1	1											
		78	Self Wt (lb/ft)	41	63	82	112	140	174	199										
			BC Braces	2	2	2	1	1	1	1										
		84	Self Wt (lb/ft)	43	62	83	103	135	158	182	205									
			BC Braces	2	2	2	1	1	1	1	1									
		90	Self Wt (lb/ft)	58	68	89	115	138	177	182										
			BC Braces	2	2	2	1	1	1	1										
		96	Self Wt (lb/ft)	59	67	92	112	137	165	183										
			BC Braces	2	2	2	1	1	1	1										

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)														
				7.5 5	15 10	22.5 15	30 20	37.5 25	45 30	52.5 35	60 40	67.5 45	75 50	82.5 55	90 60	97.5 65	105 70	
90	11 N @ 8.18	72	Self Wt (lb/ft)	47	80	115	149	174										
			BC Braces	2	2	1	1	1										
		78	Self Wt (lb/ft)	46	78	111	141	176										
			BC Braces	2	2	1	1	1										
		84	Self Wt (lb/ft)	46	71	111	132	177	200									
			BC Braces	2	2	1	1	1	1									
		90	Self Wt (lb/ft)	46	73	101	136	162	187									
			BC Braces	2	2	1	1	1	1									
		96	Self Wt (lb/ft)	46	72	100	126	153	188	209								
			BC Braces	2	2	2	1	1	1	1								
90	12 N @ 7.5	72	Self Wt (lb/ft)	47	81	118	171	195										
			BC Braces	2	2	1	1	1										
		78	Self Wt (lb/ft)	47	81	115	149	195										
			BC Braces	2	2	1	1	1										
		84	Self Wt (lb/ft)	46	75	112	142	179										
			BC Braces	2	2	1	1	1										
		90	Self Wt (lb/ft)	47	75	106	139	180	203									
			BC Braces	2	2	1	1	1	1									
		96	Self Wt (lb/ft)	46	74	102	129	166	189									
			BC Braces	2	2	1	1	1	1									
90	15 N @ 6	72	Self Wt (lb/ft)	55	99	152	195											
			BC Braces	2	1	1	1											
		78	Self Wt (lb/ft)	52	100	137	197											
			BC Braces	2	1	1	1											
		84	Self Wt (lb/ft)	53	90	139	183	208										
			BC Braces	2	1	1	1	1										
		90	Self Wt (lb/ft)	52	88	128	165	210										
			BC Braces	2	2	1	1	1										
		96	Self Wt (lb/ft)	53	86	125	167	211										
			BC Braces	2	2	1	1	1										
90	18 N @ 5	72	Self Wt (lb/ft)	61	119	176												
			BC Braces	2	1	1												
		78	Self Wt (lb/ft)	62	108	158	204											
			BC Braces	2	1	1	1											
		84	Self Wt (lb/ft)	59	107	159	208											
			BC Braces	2	1	1	1											
		90	Self Wt (lb/ft)	59	109	162	210											
			BC Braces	2	1	1	1											
		96	Self Wt (lb/ft)	60	99	154	194	223										
			BC Braces	2	1	1	1	1										
100	10 N @ 10	78	Self Wt (lb/ft)	51	71	99	140	172	199									
			BC Braces	3	2	2	1	1	1									
		84	Self Wt (lb/ft)	52	74	100	134	156	200									
			BC Braces	3	2	2	2	1	1									
		96	Self Wt (lb/ft)	59	72	107	132	163	180									
			BC Braces	2	2	2	2	1	1									
		102	Self Wt (lb/ft)	60	71	104	133	151	182									
			BC Braces	2	2	2	2	1	1									
		108	Self Wt (lb/ft)	61	70	98	118	142	183									
			BC Braces	2	2	2	2	2	1									

JOIST GIRDER LOAD TABLES

IMPERIAL

Joist Girder Span (ft)	Joist Spaces (ft)	Girder Depth (in)	Factored Load Service Load	Load on Each Panel Point (kip)															
				7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		
				5	10	15	20	25	30	35	40	45	50	55	60	65	70		
100	12 N @ 8.33	78	Self Wt (lb/ft)	55	91	127	173												
			BC Braces	2	2	2	1												
		84	Self Wt (lb/ft)	55	90	115	172	197											
			BC Braces	3	2	2	1	1											
		96	Self Wt (lb/ft)	55	77	114	147	183											
			BC Braces	3	2	2	1	1											
		102	Self Wt (lb/ft)	56	76	107	140	185	205										
			BC Braces	3	2	2	2	1	1										
		108	Self Wt (lb/ft)	55	78	104	142	169	192										
			BC Braces	3	2	2	2	1	1										
100	14 N @ 7.14	78	Self Wt (lb/ft)	57	98	147	194												
			BC Braces	2	2	1	1												
		84	Self Wt (lb/ft)	57	93	140	177												
			BC Braces	2	2	1	1												
		96	Self Wt (lb/ft)	56	88	122	164	206											
			BC Braces	3	2	2	1	1											
		102	Self Wt (lb/ft)	57	81	124	165	190											
			BC Braces	3	2	2	1	1											
		108	Self Wt (lb/ft)	57	82	120	153	193											
			BC Braces	3	2	2	1	1											
100	16 N @ 6.25	78	Self Wt (lb/ft)	63	113	152													
			BC Braces	2	2	1													
		84	Self Wt (lb/ft)	62	102	154	202												
			BC Braces	2	2	1	1												
		96	Self Wt (lb/ft)	62	93	143	189												
			BC Braces	2	2	1	1												
		102	Self Wt (lb/ft)	62	94	132	172	214											
			BC Braces	2	2	2	1	1											
		108	Self Wt (lb/ft)	63	89	134	175	218											
			BC Braces	2	2	2	1	1											
100	18 N @ 5.56	78	Self Wt (lb/ft)	64	120	196													
			BC Braces	2	2	1													
		84	Self Wt (lb/ft)	65	117	179													
			BC Braces	2	2	1													
		96	Self Wt (lb/ft)	66	109	163	213												
			BC Braces	2	2	1	1												
		102	Self Wt (lb/ft)	68	110	153	212												
			BC Braces	2	2	1	1												
		108	Self Wt (lb/ft)	67	102	156	198	225											
			BC Braces	2	2	1	1	1											
100	20 N @ 5	78	Self Wt (lb/ft)	69	136	201													
			BC Braces	2	1	1													
		84	Self Wt (lb/ft)	71	123	202													
			BC Braces	2	2	1													
		96	Self Wt (lb/ft)	72	118	172	218												
			BC Braces	2	2	1	1												
		102	Self Wt (lb/ft)	71	114	174	223												
			BC Braces	2	2	1	1												
		108	Self Wt (lb/ft)	71	124	179	227												
			BC Braces	2	2	1	1												