

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
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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

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30	60	90	120	150	180	210	240	270	300	330	360	390	420		
				20	40	60	80	100	120	140	160	180	200	220	240	260	280		
6	2 N @ 3	508	Self Wt (kg/m)	25	25	26	33	42	44	52	60	68	74	75	89	103	103		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		610	Self Wt (kg/m)	25	25	26	31	35	39	45	49	61	64	71	78	79	82		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		711	Self Wt (kg/m)	26	26	27	31	33	35	42	47	50	57	66	66	75	80		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	3 N @ 2	508	Self Wt (kg/m)	25	30	33	44	50	62	73	79	96	110	110	114	127	134		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		610	Self Wt (kg/m)	26	27	32	38	50	52	67	70	81	88	102	113	127	128		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		711	Self Wt (kg/m)	25	28	29	36	42	48	56	61	69	76	89	89	97	106		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	4 N @ 1.5	508	Self Wt (kg/m)	25	31	45	56	74	85	106	108	121	141	156	159	190	218		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		610	Self Wt (kg/m)	25	28	38	45	54	72	82	105	108	109	119	133	157	158		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		711	Self Wt (kg/m)	26	27	32	43	55	61	75	76	88	109	113	112	123	136		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	5 N @ 1.2	508	Self Wt (kg/m)	25	36	52	71	81	103	113	128	154	157	194	215	220	222		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		610	Self Wt (kg/m)	26	31	43	58	75	85	109	110	119	133	160	167	193	224		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		711	Self Wt (kg/m)	27	31	43	52	63	78	90	112	114	122	133	141	172	173		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	2 N @ 3.5	508	Self Wt (kg/m)	24	27	35	43	52	63	75	82	84	92	97	103	112	127		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		610	Self Wt (kg/m)	25	26	29	39	45	53	64	64	77	86	86	86	94	102		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		711	Self Wt (kg/m)	25	25	30	33	41	46	54	56	67	68	87	88	92	88		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	3 N @ 2.33	508	Self Wt (kg/m)	24	30	36	48	61	74	86	91	101	109	122	138	142	155		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		610	Self Wt (kg/m)	25	27	33	45	51	62	78	78	93	99	107	113	121	126		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		711	Self Wt (kg/m)	25	30	33	40	49	54	64	69	81	97	102	111	115	119		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	4 N @ 1.75	508	Self Wt (kg/m)	25	34	51	68	90	101	106	124	150	152	182	210	215	218		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		610	Self Wt (kg/m)	25	31	45	54	72	81	103	100	121	129	153	155	184	193		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		711	Self Wt (kg/m)	26	31	37	50	65	74	86	104	108	113	125	134	159	160		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	5 N @ 1.4	508	Self Wt (kg/m)	25	40	61	75	100	110	125	151	176	211	214	218	272	277		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		610	Self Wt (kg/m)	25	34	52	71	81	104	101	122	143	156	192	214	221	222		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		711	Self Wt (kg/m)	26	32	43	58	74	85	109	110	119	133	160	168	189	205		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	6 N @ 1.17	508	Self Wt (kg/m)	3	50	70	99	111	149	152	209	211	217	273	274				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		610	Self Wt (kg/m)	3	41	58	82	103	115	130	156	181	215	221	224	277	285		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		711	Self Wt (kg/m)	3	38	54	74	88	109	118	134	161	164	192	227	228	230		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)																
				30	60	90	120	150	180	210	240	270	300	330	360	390	420			
				20	40	60	80	100	120	140	160	180	200	220	240	260	280			
8	3 N @ 2.67	508	Self Wt (kg/m)	24	31	42	56	71	82	88	98	111	127	135	147	162	184			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		610	Self Wt (kg/m)	25	28	36	45	61	74	84	90	98	101	114	120	137	140			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		711	Self Wt (kg/m)	25	30	34	44	50	62	69	78	88	95	103	110	120	122			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	813	Self Wt (kg/m)	26	31	33	38	48	60	64	72	80	93	99	101	108	116				
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	8	4 N @ 2	508	Self Wt (kg/m)	25	37	51	74	100	102	124	147	151	180	209	210	214	270		
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			610	Self Wt (kg/m)	25	32	46	63	78	102	105	112	127	153	154	184	212	215		
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
711			Self Wt (kg/m)	25	31	40	56	72	79	105	107	113	129	133	158	163	186			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
813		Self Wt (kg/m)	26	32	40	52	65	78	85	100	110	119	123	137	143	164				
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8		5 N @ 1.6	508	Self Wt (kg/m)	27	45	67	98	103	122	149	173	208	210	270	270	289			
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			610	Self Wt (kg/m)	25	36	53	75	100	99	124	151	153	188	214	219	220	277		
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	711		Self Wt (kg/m)	25	34	52	71	77	104	106	122	130	156	158	199	222	222			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	813	Self Wt (kg/m)	26	32	43	58	74	85	108	110	119	133	160	168	187	202				
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	8	6 N @ 1.33	508	Self Wt (kg/m)	30	51	76	99	122	148	207	209	269	271	274					
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			610	Self Wt (kg/m)	26	46	69	99	102	125	152	180	211	218	274	274	281			
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
711			Self Wt (kg/m)	26	41	58	75	104	107	129	156	161	215	222	224	277	286			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
813		Self Wt (kg/m)	27	38	54	75	87	108	119	134	161	169	192	226	229	229				
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9		3 N @ 3	610	Self Wt (kg/m)	25	29	43	56	64	83	87	97	105	111	128	136	155	163		
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			711	Self Wt (kg/m)	25	29	39	46	60	68	84	86	89	102	114	118	131	140		
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	813		Self Wt (kg/m)	25	30	35	44	56	62	69	88	88	93	105	106	118	122			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	914	Self Wt (kg/m)	26	31	34	42	49	60	65	72	89	96	97	101	108	117				
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	4 N @ 2.25	610	Self Wt (kg/m)	25	36	52	74	90	101	110	125	149	152	181	209	212	215			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		711	Self Wt (kg/m)	25	32	46	63	78	92	106	112	127	151	155	158	184	214			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
813		Self Wt (kg/m)	26	32	44	56	72	79	94	108	113	124	134	158	163	182				
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
914	Self Wt (kg/m)	26	32	39	52	67	78	88	100	115	118	124	138	157	164					
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30	60	90	120	150	180	210	240	270	300	330	360	390	420		
				20	40	60	80	100	120	140	160	180	200	220	240	260	280		
9	5 N @ 1.8	610	Self Wt (kg/m)	27	43	67	87	99	115	146	149	185	210	214	271	273	288		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		711	Self Wt (kg/m)	25	36	53	74	90	103	118	139	153	180	193	219	220	250		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		813	Self Wt (kg/m)	26	34	49	65	77	104	106	117	130	157	160	195	222	223		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	914	Self Wt (kg/m)	26	33	47	58	74	85	108	110	119	133	147	168	185	201			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	9	6 N @ 1.5	610	Self Wt (kg/m)	27	49	73	98	122	149	176	209	210	271	271	276			
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			711	Self Wt (kg/m)	26	43	70	80	102	126	153	155	211	213	220	275	279	284	
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
813			Self Wt (kg/m)	26	40	59	74	103	107	129	156	162	187	222	225	225	284		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
914		Self Wt (kg/m)	27	38	54	74	87	109	111	134	161	163	191	227	230	229			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9		8 N @ 1.13	610	Self Wt (kg/m)	35	68	102	123	151	208	213	273	279						
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			711	Self Wt (kg/m)	31	56	83	104	153	157	215	219	280	302	314				
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	813		Self Wt (kg/m)	30	53	79	108	118	158	169	224	229	238	288	322	330			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	914	Self Wt (kg/m)	29	51	76	99	114	135	162	175	229	256	243	301	322	329			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	10	3 N @ 3.33	610	Self Wt (kg/m)	24	37	50	61	79	82	94	108	125	133	145	153	175	191	
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			711	Self Wt (kg/m)	24	30	43	53	65	83	83	90	105	111	128	135	148	157	
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
813			Self Wt (kg/m)	25	30	38	50	60	66	84	85	94	102	113	126	131	139		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
914		Self Wt (kg/m)	25	31	39	45	54	67	70	86	88	92	103	110	117	132			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10		4 N @ 2.5	610	Self Wt (kg/m)	25	41	58	74	97	107	122	146	162	204	208	209	265	267	
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			711	Self Wt (kg/m)	25	34	50	73	89	101	106	124	148	152	180	207	210	213	
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	813		Self Wt (kg/m)	25	32	45	62	76	91	103	109	120	140	154	158	184	213		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	914	Self Wt (kg/m)	27	32	46	57	71	77	93	105	103	115	130	156	156	157			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	10	5 N @ 2	610	Self Wt (kg/m)	27	51	72	98	104	134	161	183	209	216	272	277	296		
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			711	Self Wt (kg/m)	26	45	63	86	105	119	137	150	171	218	220	225	293	300	
				BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
813			Self Wt (kg/m)	26	36	53	75	90	103	112	128	154	178	190	216	221	222		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
914		Self Wt (kg/m)	26	35	48	65	77	94	106	117	130	157	157	175	200	224			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30	60	90	120	150	180	210	240	270	300	330	360	390	420		
				20	40	60	80	100	120	140	160	180	200	220	240	260	280		
10	6 N @ 1.67	610	Self Wt (kg/m)	30	53	76	97	122	148	206	208	268	270	273					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		711	Self Wt (kg/m)	27	50	69	98	110	124	152	208	210	217	273	273	280			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		813	Self Wt (kg/m)	27	43	70	80	103	113	153	155	182	213	221	222	279	284		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		914	Self Wt (kg/m)	30	40	55	73	104	108	117	157	158	185	222	224	227	285		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	8 N @ 1.25	610	Self Wt (kg/m)	37	67	101	146	203	208	269	273								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		711	Self Wt (kg/m)	34	67	103	124	152	209	214	274	279	304						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		813	Self Wt (kg/m)	32	55	83	104	129	159	215	220	226	293	308					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		914	Self Wt (kg/m)	32	54	80	108	119	158	164	225	230	238	289	318	327			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	4 N @ 2.75	610	Self Wt (kg/m)	27	44	68	84	99	118	143	156	201	203	205	261	262	265		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		711	Self Wt (kg/m)	26	41	56	72	98	102	114	133	152	175	205	207	209	267		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		813	Self Wt (kg/m)	25	36	57	72	86	101	105	116	137	151	164	186	211	211		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		914	Self Wt (kg/m)	25	35	46	62	76	92	103	109	120	140	155	159	176	192		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	5 N @ 2.2	610	Self Wt (kg/m)	30	56	71	94	114	144	172	206	264	271						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		711	Self Wt (kg/m)	30	45	71	87	102	122	146	162	207	209	240	270	274	284		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		813	Self Wt (kg/m)	27	44	59	75	99	106	124	151	173	188	211	215	246	277		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		914	Self Wt (kg/m)	26	38	53	75	90	103	109	128	155	156	177	216	221	223		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11	6 N @ 1.83	610	Self Wt (kg/m)	31	64	95	119	144	203	205	261	268	270						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		711	Self Wt (kg/m)	30	51	76	99	121	149	176	208	212	271	274	276				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		813	Self Wt (kg/m)	30	50	70	99	105	125	152	179	211	218	274	274	281	295		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		914	Self Wt (kg/m)	27	46	70	80	103	113	130	156	183	213	222	223	280	284		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11	8 N @ 1.38	610	Self Wt (kg/m)	39	75	106	145	204	262	269									
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		711	Self Wt (kg/m)	36	67	101	123	173	208	212	273	279							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		813	Self Wt (kg/m)	34	68	101	113	152	181	213	220	280	283						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		914	Self Wt (kg/m)	32	56	82	107	130	156	187	219	226	292	306	313				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30	60	90	120	150	180	210	240	270	300	330	360	390	420		
				20	40	60	80	100	120	140	160	180	200	220	240	260	280		
12	4 N @ 3	813	Self Wt (kg/m)	26	41	56	72	88	98	114	133	147	164	183	207	210	240		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		914	Self Wt (kg/m)	25	39	53	68	86	101	108	118	137	151	168	174	189	214		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1016	Self Wt (kg/m)	26	34	46	62	76	92	102	110	122	140	155	166	178	192		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	26	34	45	63	71	90	96	108	113	124	144	147	160	178		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12	5 N @ 2.4	813	Self Wt (kg/m)	30	45	73	89	99	117	137	165	186	212	214	243	274	279		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		914	Self Wt (kg/m)	27	43	59	74	100	106	118	139	167	188	211	215	220	246		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1016	Self Wt (kg/m)	27	37	60	75	90	103	109	123	143	170	177	195	222	224		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	27	36	50	65	77	95	105	119	143	146	159	175	201	225		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12	6 N @ 2	813	Self Wt (kg/m)	28	52	72	99	115	149	162	209	212	273	272	277				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		914	Self Wt (kg/m)	27	47	70	89	101	125	152	167	211	215	221	274	280	282		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1016	Self Wt (kg/m)	27	46	63	80	103	114	130	156	171	213	223	224	277	285		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	31	42	56	78	104	108	118	146	159	174	224	226	232	235		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12	8 N @ 1.5	813	Self Wt (kg/m)	35	68	102	124	152	208	213	274	276							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		914	Self Wt (kg/m)	34	62	101	113	153	157	214	221	280	283	309					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1016	Self Wt (kg/m)	32	56	82	108	130	157	186	219	227	292	309	311				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	36	57	80	108	120	147	165	199	229	256	311	293	324			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12	10 N @ 1.2	813	Self Wt (kg/m)	42	79	111	153	211	272	280									
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		914	Self Wt (kg/m)	39	75	108	154	185	221	280	288								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1016	Self Wt (kg/m)	37	72	107	130	159	222	227	284	301							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1118	Self Wt (kg/m)	36	67	108	119	159	192	231	238	303	312						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
13	4 N @ 3.25	813	Self Wt (kg/m)	27	42	62	82	95	108	131	145	158	181	205	207	235	266		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		914	Self Wt (kg/m)	30	41	57	72	88	98	111	133	148	159	184	207	210	211		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1016	Self Wt (kg/m)	27	39	53	67	85	92	102	115	137	142	161	170	190	213		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	26	35	49	62	77	93	102	110	122	141	144	167	171	192		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1219	Self Wt (kg/m)	30	37	47	58	68	82	92	104	111	122	142	145	154	176				
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30	60	90	120	150	180	210	240	270	300	330	360	390	420		
				20	40	60	80	100	120	140	160	180	200	220	240	260	280		
13	5 N @ 2.6	813	Self Wt (kg/m)	30	46	72	88	110	134	153	183	207	210	241	270	275			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		914	Self Wt (kg/m)	30	46	67	90	100	118	136	164	170	213	215	249	286	289		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1016	Self Wt (kg/m)	28	44	62	74	90	106	119	140	159	167	189	216	221	249		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1118	Self Wt (kg/m)	27	41	60	75	91	102	109	123	144	162	176	196	223	224		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1219	Self Wt (kg/m)	30	37	49	64	80	93	105	120	137	146	167	176	202	226		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	6 N @ 2.17	813	Self Wt (kg/m)	30	58	86	101	121	149	206	208	211	272	272					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		914	Self Wt (kg/m)	30	52	72	99	110	150	151	210	213	218	275	277	282			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1016	Self Wt (kg/m)	29	47	70	90	101	125	153	165	211	216	222	278	279	285		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	27	46	63	82	103	114	130	157	172	215	224	225	254	284		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1219	Self Wt (kg/m)	29	42	57	75	96	112	124	147	160	174	227	229	235	237		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	8 N @ 1.63	813	Self Wt (kg/m)	36	72	101	145	173	208	268	273								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		914	Self Wt (kg/m)	34	68	102	124	152	182	213	274	278	301						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1016	Self Wt (kg/m)	34	63	92	109	141	158	214	220	282	283	307					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	33	56	83	109	131	158	187	220	229	292	308	311				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1219	Self Wt (kg/m)	34	56	79	101	120	147	165	198	230	255	311	294	322			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13	10 N @ 1.3	813	Self Wt (kg/m)	49	99	123	174	210	273	281									
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		914	Self Wt (kg/m)	41	79	111	153	212	217	280	298								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		1016	Self Wt (kg/m)	39	76	109	143	185	222	253	285								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		1118	Self Wt (kg/m)	37	73	107	130	158	223	228	283	305							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		1219	Self Wt (kg/m)	35	64	97	119	156	182	231	238	301	313						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
14	4 N @ 3.5	813	Self Wt (kg/m)	32	50	73	82	101	123	144	172	189	204	233	235	265			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		914	Self Wt (kg/m)	29	42	63	82	86	110	127	136	156	177	194	208	239	240		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1016	Self Wt (kg/m)	27	41	57	83	89	99	112	129	138	161	168	186	212	213		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1118	Self Wt (kg/m)	27	39	54	66	86	90	102	115	131	141	162	170	191	214		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1219	Self Wt (kg/m)	28	37	48	66	76	88	103	110	119	135	145	166	178	194		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1321	Self Wt (kg/m)	30	36	47	58	68	86	92	104	111	122	143	143	156	178				
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1				



# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder	Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)													
					30 20	60 40	90 60	120 80	150 100	180 120	210 140	240 160	270 180	300 200	330 220	360 240	390 260	420 280
14	5 N @ 2.8	813	Self Wt (kg/m)	31	56	81	95	113	134	158	193	207	236	267	270			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		914	Self Wt (kg/m)	29	47	73	89	104	128	148	166	186	211	241	244	275		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1016	Self Wt (kg/m)	30	45	66	85	97	112	135	149	165	188	211	216	247	273	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1118	Self Wt (kg/m)	29	44	62	84	91	101	119	140	159	168	190	216	222	250	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1219	Self Wt (kg/m)	29	41	54	70	83	102	109	135	144	163	177	196	224	225	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1321	Self Wt (kg/m)	30	36	52	69	80	93	105	120	137	146	168	182	206	227	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	6 N @ 2.33	813	Self Wt (kg/m)	33	59	97	114	146	181	205	237	267	272					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		914	Self Wt (kg/m)	31	58	76	98	121	149	175	209	213	272	274	276			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1016	Self Wt (kg/m)	31	52	72	99	110	138	150	179	211	219	275	278	280		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1118	Self Wt (kg/m)	29	48	70	90	101	120	153	154	183	214	225	256	280	286	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1219	Self Wt (kg/m)	30	44	61	78	98	111	131	157	173	195	226	228	233	294	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1321	Self Wt (kg/m)	31	44	57	75	91	112	126	147	160	174	206	232	234	239	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	8 N @ 1.75	813	Self Wt (kg/m)	38	75	106	146	204	207	269	273							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		914	Self Wt (kg/m)	36	68	101	123	151	208	212	274	278						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1016	Self Wt (kg/m)	34	69	103	113	153	182	213	221	285	284					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	33	63	92	104	131	158	214	221	228	293	304				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1219	Self Wt (kg/m)	32	56	78	103	125	158	179	220	229	292	308	312			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1321	Self Wt (kg/m)	35	58	79	107	121	148	165	195	231	239	292	295	321		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14	10 N @ 1.4	813	Self Wt (kg/m)	50	99	145	204	210	272									
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			
		914	Self Wt (kg/m)	46	89	123	152	211	272	279								
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			
		1016	Self Wt (kg/m)	45	90	112	153	214	221	278	296							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			
		1118	Self Wt (kg/m)	45	76	109	142	175	222	253	285							
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			
		1219	Self Wt (kg/m)	37	72	103	124	159	201	228	284	303						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			
		1321	Self Wt (kg/m)	36	65	91	120	156	183	232	239	304	311					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30 20	60 40	90 60	120 80	150 100	180 120	210 140	240 160	270 180	300 200	330 220	360 240	390 260	420 280		
15	5 N @ 3	1016	Self Wt (kg/m)	30	52	73	89	100	129	138	161	187	212	242	246	275	281		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	31	46	66	86	98	112	129	139	165	188	212	216	248	250		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1219	Self Wt (kg/m)	30	43	58	77	90	101	115	141	160	169	191	217	223	251		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1321	Self Wt (kg/m)	30	44	55	70	87	102	116	136	142	164	177	197	224	227			
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1422	Self Wt (kg/m)	31	43	53	69	80	94	106	120	138	148	168	179	206	229			
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1524	Self Wt (kg/m)	31	42	50	70	81	95	107	113	127	149	152	172	180	208			
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15	6 N @ 2.5	1016	Self Wt (kg/m)	32	58	72	97	116	149	164	209	214	246	275	278				
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	31	53	73	100	106	139	151	180	212	220	250	279	280	286		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1219	Self Wt (kg/m)	30	47	64	85	106	120	143	155	183	215	225	256	281	294		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1321	Self Wt (kg/m)	30	46	61	79	99	111	132	158	174	195	226	229	236	294			
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1422	Self Wt (kg/m)	31	44	58	76	92	111	127	148	161	177	207	231	236	241			
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1524	Self Wt (kg/m)	32	44	58	77	93	106	118	136	162	167	184	235	242	241			
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15	8 N @ 1.88	1016	Self Wt (kg/m)	37	68	102	123	152	208	214	276	283							
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	34	63	101	113	153	179	214	224	287	297						
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1219	Self Wt (kg/m)	33	57	82	110	132	156	186	223	232	293	305					
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1321	Self Wt (kg/m)	34	53	80	104	125	159	179	222	238	242	307	311	315				
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1422	Self Wt (kg/m)	36	59	80	111	121	148	172	198	232	239	292	312	317				
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1524	Self Wt (kg/m)	36	56	79	103	120	140	163	185	211	241	247	298	310	324			
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15	10 N @ 1.5	1016	Self Wt (kg/m)	47	78	112	153	213	217	279									
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1118	Self Wt (kg/m)	45	76	109	153	191	222	280	289								
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1219	Self Wt (kg/m)	42	75	110	140	175	223	254	286	299							
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1321	Self Wt (kg/m)	41	72	103	125	157	202	228	265	303								
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1422	Self Wt (kg/m)	37	67	99	121	151	183	232	240	303	306							
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1524	Self Wt (kg/m)	38	66	96	122	152	165	211	242	273	303	315						
	BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30	60	90	120	150	180	210	240	270	300	330	360	390	420		
				20	40	60	80	100	120	140	160	180	200	220	240	260	280		
15	12 N @ 1.25	1016	Self Wt (kg/m)	52	102	152	212	220	283										
			BC Braces	1	1	1	1	1	1										
		1118	Self Wt (kg/m)	51	103	129	185	221	281	291									
			BC Braces	1	1	1	1	1	1	1	1								
		1219	Self Wt (kg/m)	48	96	117	160	225	<b>230</b>	301									
			BC Braces	1	1	1	1	1	1	1	1								
		1321	Self Wt (kg/m)	48	84	118	159	193	235	301	<b>306</b>								
			BC Braces	1	1	1	1	1	1	1	1	1							
		1422	Self Wt (kg/m)	<b>44</b>	83	116	<b>141</b>	181	237	<b>246</b>	307	<b>315</b>							
			BC Braces	1	1	1	1	1	1	1	1	1	1						
		1524	Self Wt (kg/m)	45	<b>80</b>	<b>114</b>	144	<b>170</b>	241	249	311	317	<b>325</b>						
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
16	5 N @ 3.2	1016	Self Wt (kg/m)	33	53	82	86	111	135	155	179	194	239	246	273	287			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1118	Self Wt (kg/m)	31	53	68	90	101	130	140	160	184	200	216	248	254	292		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1219	Self Wt (kg/m)	31	47	66	86	94	113	131	153	161	183	199	217	250	251		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1321	Self Wt (kg/m)	32	47	62	86	95	102	116	141	160	163	188	200	225	253		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1422	Self Wt (kg/m)	<b>30</b>	<b>45</b>	63	<b>70</b>	<b>88</b>	103	116	137	143	165	178	199	<b>205</b>	229		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1524	Self Wt (kg/m)	<b>30</b>	46	<b>58</b>	71	89	<b>99</b>	<b>106</b>	<b>125</b>	<b>140</b>	<b>148</b>	<b>167</b>	<b>189</b>	208	<b>209</b>		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16	6 N @ 2.67	1016	Self Wt (kg/m)	33	58	87	102	134	147	184	210	214	274	275					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1118	Self Wt (kg/m)	32	59	74	97	117	139	163	189	215	220	276	279	282			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1219	Self Wt (kg/m)	31	49	74	91	107	140	152	169	214	218	225	281	281	287		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1321	Self Wt (kg/m)	31	<b>48</b>	75	92	102	121	144	156	188	217	227	<b>231</b>	284	295		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1422	Self Wt (kg/m)	30	<b>48</b>	65	90	105	<b>112</b>	133	159	176	196	229	233	<b>237</b>	298		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1524	Self Wt (kg/m)	<b>29</b>	<b>48</b>	<b>64</b>	<b>80</b>	<b>99</b>	<b>112</b>	<b>128</b>	<b>151</b>	<b>160</b>	<b>175</b>	<b>209</b>	234	238	<b>241</b>		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
16	8 N @ 2	1016	Self Wt (kg/m)	38	72	99	136	163	209	242	277	283							
			BC Braces	1	1	1	1	1	1	1	1	1	1						
		1118	Self Wt (kg/m)	37	68	104	125	153	188	216	279	287	296						
			BC Braces	1	1	1	1	1	1	1	1	1	1						
		1219	Self Wt (kg/m)	36	63	93	115	155	169	216	226	289	296	304					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		1321	Self Wt (kg/m)	<b>34</b>	63	84	<b>110</b>	131	158	189	223	236	295	306	<b>308</b>				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1				
		1422	Self Wt (kg/m)	35	<b>57</b>	<b>81</b>	<b>110</b>	<b>127</b>	158	181	229	240	<b>243</b>	307	311	<b>314</b>			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		1524	Self Wt (kg/m)	37	65	94	112	<b>127</b>	<b>150</b>	<b>175</b>	<b>208</b>	<b>233</b>	<b>243</b>	<b>274</b>	<b>308</b>	317			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30	60	90	120	150	180	210	240	270	300	330	360	390	420		
				20	40	60	80	100	120	140	160	180	200	220	240	260	280		
16	9 N @ 1.78	1016	Self Wt (kg/m)	44	77	110	149	208	213	277	284								
			BC Braces	1	1	1	1	1	1	1	1								
		1118	Self Wt (kg/m)	39	75	100	138	167	214	251	288								
			BC Braces	1	1	1	1	1	1	1	1	1							
		1219	Self Wt (kg/m)	39	70	103	128	156	217	221	290	299							
			BC Braces	1	1	1	1	1	1	1	1	1	1						
	1321	Self Wt (kg/m)	45	70	100	124	156	197	224	258	292	307							
		BC Braces	1	1	1	1	1	1	1	1	1	1	1						
	1422	Self Wt (kg/m)	38	69	98	121	153	179	212	239	278	312							
		BC Braces	1	1	1	1	1	1	1	1	1	1	1						
	1524	Self Wt (kg/m)	38	68	98	121	152	169	214	240	250	313	321						
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1					
16	12 N @ 1.33	1016	Self Wt (kg/m)	58	105	150	213	275											
			BC Braces	1	1	1	1	1											
		1118	Self Wt (kg/m)	52	104	153	213	222	282										
			BC Braces	1	1	1	1	1	1										
		1219	Self Wt (kg/m)	48	104	131	174	223	283	293									
			BC Braces	1	1	1	1	1	1	1									
	1321	Self Wt (kg/m)	48	96	118	160	227	232	301	307									
		BC Braces	1	1	1	1	1	1	1	1									
	1422	Self Wt (kg/m)	48	84	119	160	199	235	299	306									
		BC Braces	1	1	1	1	1	1	1	1									
	1524	Self Wt (kg/m)	45	84	116	144	183	238	247	309	316								
		BC Braces	1	1	1	1	1	1	1	1	1								
17	5 N @ 3.4	1118	Self Wt (kg/m)	33	54	83	85	111	129	150	180	196	213	243	245	276			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1219	Self Wt (kg/m)	33	53	67	88	100	123	137	160	180	198	213	248	250	278		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1321	Self Wt (kg/m)	33	47	67	86	94	114	131	154	161	184	200	219	251	251		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1422	Self Wt (kg/m)	32	47	67	86	95	103	127	136	155	164	188	201	225	254			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1524	Self Wt (kg/m)	32	47	59	80	92	104	121	137	143	166	189	200	206	229			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1676	Self Wt (kg/m)	31	46	57	72	89	102	112	125	141	149	169	182	203	210			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
17	6 N @ 2.83	1118	Self Wt (kg/m)	34	59	87	103	134	148	179	211	215	274	276	279				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		1219	Self Wt (kg/m)	32	59	74	99	118	140	164	190	213	221	278	280	282			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
		1321	Self Wt (kg/m)	31	49	74	91	107	139	153	170	192	219	226	282	283	289		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1422	Self Wt (kg/m)	32	49	69	92	103	121	144	163	174	218	228	231	290	298			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	1524	Self Wt (kg/m)	32	48	65	90	106	113	145	156	175	198	230	233	266	292			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	1676	Self Wt (kg/m)	33	49	67	80	100	109	129	152	162	179	209	236	241	243			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)														
				30	60	90	120	150	180	210	240	270	300	330	360	390	420	
				20	40	60	80	100	120	140	160	180	200	220	240	260	280	
17	8 N @ 2.13	1118	Self Wt (kg/m)	38	73	103	131	163	210	215	278	286						
			BC Braces	1	1	1	1	1	1	1	1	1	1					
		1219	Self Wt (kg/m)	36	69	104	121	154	183	216	252	289	296					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1				
		1321	Self Wt (kg/m)	36	64	<b>93</b>	111	143	170	219	226	292	295	304				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			
		1422	Self Wt (kg/m)	<b>35</b>	63	94	111	132	159	188	228	236	299	306	<b>304</b>			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1524	Self Wt (kg/m)	43	66	97	<b>109</b>	129	159	183	232	240	257	306	310	315		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1676	Self Wt (kg/m)	38	<b>60</b>	95	113	<b>128</b>	<b>151</b>	<b>175</b>	<b>188</b>	<b>234</b>	<b>241</b>	<b>276</b>	308	<b>311</b>		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17	10 N @ 1.7	1118	Self Wt (kg/m)	46	90	125	152	213	275	289								
			BC Braces	1	1	1	1	1	1	1								
		1219	Self Wt (kg/m)	46	90	120	153	213	250	280								
			BC Braces	1	1	1	1	1	1	1								
		1321	Self Wt (kg/m)	46	87	110	144	173	224	255	302							
			BC Braces	1	1	1	1	1	1	1	1							
		1422	Self Wt (kg/m)	47	77	108	143	177	224	231	288	303						
			BC Braces	1	1	1	1	1	1	1	1	1						
		1524	Self Wt (kg/m)	48	79	109	128	158	205	232	267	294						
			BC Braces	1	1	1	1	1	1	1	1	1						
		1676	Self Wt (kg/m)	<b>41</b>	<b>70</b>	<b>99</b>	<b>122</b>	<b>152</b>	<b>184</b>	<b>212</b>	<b>243</b>	<b>273</b>	<b>307</b>					
			BC Braces	1	1	1	1	1	1	1	1	1	1					
17	12 N @ 1.42	1118	Self Wt (kg/m)	59	103	151	213	276	285									
			BC Braces	1	1	1	1	1	1									
		1219	Self Wt (kg/m)	53	104	142	186	223	283									
			BC Braces	1	1	1	1	1	1									
		1321	Self Wt (kg/m)	50	96	131	175	227	291	300								
			BC Braces	1	1	1	1	1	1	1								
		1422	Self Wt (kg/m)	48	98	120	159	229	<b>236</b>	296	<b>304</b>							
			BC Braces	1	1	1	1	1	1	1	1							
		1524	Self Wt (kg/m)	49	86	120	160	195	<b>236</b>	296	305							
			BC Braces	1	1	1	1	1	1	1	1							
		1676	Self Wt (kg/m)	<b>46</b>	<b>85</b>	<b>117</b>	<b>145</b>	<b>173</b>	243	<b>250</b>	309	<b>317</b>						
			BC Braces	1	1	1	1	1	1	1	1	1						
17	15 N @ 1.13	1118	Self Wt (kg/m)	69	120	190	283	296										
			BC Braces	1	1	1	1	1										
		1219	Self Wt (kg/m)	64	115	172	226	295										
			BC Braces	1	1	1	1	1										
		1321	Self Wt (kg/m)	56	108	158	228	297	307									
			BC Braces	1	1	1	1	1	1									
		1422	Self Wt (kg/m)	56	110	161	228	<b>240</b>	308									
			BC Braces	1	1	1	1	1	1									
		1524	Self Wt (kg/m)	57	112	142	198	<b>240</b>	304	<b>322</b>								
			BC Braces	1	1	1	1	1	1	1								
		1676	Self Wt (kg/m)	<b>55</b>	<b>103</b>	<b>140</b>	<b>177</b>	248	<b>256</b>	323								
			BC Braces	1	1	1	1	1	1	1								

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)														
				30 20	60 40	90 60	120 80	150 100	180 120	210 140	240 160	270 180	300 200	330 220	360 240	390 260	420 280	
18	5 N @ 3.6	1219	Self Wt (kg/m)	34	53	84	93	107	130	151	181	197	214	248	251	287		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1321	Self Wt (kg/m)	<b>33</b>	53	68	91	100	124	132	160	181	198	215	249	250	278	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1422	Self Wt (kg/m)	<b>33</b>	53	67	89	95	109	134	153	162	184	200	220	251	252	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1524	Self Wt (kg/m)	<b>33</b>	48	67	87	96	110	128	136	156	186	189	203	226	254		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1676	Self Wt (kg/m)	34	<b>47</b>	62	81	93	<b>102</b>	118	136	<b>140</b>	160	189	194	209	231		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1829	Self Wt (kg/m)	37	48	<b>59</b>	<b>74</b>	<b>91</b>	103	<b>113</b>	<b>126</b>	142	<b>152</b>	<b>168</b>	<b>175</b>	<b>199</b>	<b>211</b>		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
18	6 N @ 3	1219	Self Wt (kg/m)	<b>33</b>	59	85	98	129	148	167	211	213	249	277	280			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1321	Self Wt (kg/m)	<b>33</b>	59	86	99	113	140	161	189	214	223	252	282	283		
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
		1422	Self Wt (kg/m)	34	56	75	92	107	134	155	173	193	221	228	254	283	289	
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1524	Self Wt (kg/m)	<b>33</b>	<b>49</b>	69	92	103	122	146	166	175	220	229	260	264	292		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1676	Self Wt (kg/m)	34	50	68	90	107	114	129	<b>151</b>	170	180	209	234	<b>240</b>	269		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1829	Self Wt (kg/m)	<b>33</b>	<b>49</b>	<b>67</b>	<b>82</b>	<b>101</b>	<b>110</b>	<b>125</b>	153	<b>158</b>	<b>176</b>	<b>185</b>	<b>215</b>	243	<b>242</b>		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
18	8 N @ 2.25	1219	Self Wt (kg/m)	39	73	103	126	152	211	215	280	286						
			BC Braces	1	1	1	1	1	1	1	1	1	1					
		1321	Self Wt (kg/m)	36	70	102	121	155	181	218	228	288	296					
			BC Braces	1	1	1	1	1	1	1	1	1	1					
		1422	Self Wt (kg/m)	36	65	<b>94</b>	111	144	171	222	229	265	296	303				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1				
	1524	Self Wt (kg/m)	<b>35</b>	64	95	112	133	160	191	230	236	297	306	<b>304</b>				
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1				
	1676	Self Wt (kg/m)	44	67	98	113	131	<b>152</b>	182	210	235	264	300	307				
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1				
	1829	Self Wt (kg/m)	45	<b>62</b>	98	<b>109</b>	<b>129</b>	154	<b>175</b>	<b>188</b>	<b>213</b>	<b>239</b>	<b>279</b>	310	<b>312</b>			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1			
18	10 N @ 1.8	1219	Self Wt (kg/m)	47	90	119	154	214	220	289								
			BC Braces	1	1	1	1	1	1	1								
		1321	Self Wt (kg/m)	47	88	116	154	192	223	281								
			BC Braces	1	1	1	1	1	1	1								
		1422	Self Wt (kg/m)	48	88	110	144	176	224	256	289							
			BC Braces	1	1	1	1	1	1	1	1							
	1524	Self Wt (kg/m)	48	80	108	144	177	227	231	288	297							
		BC Braces	1	1	1	1	1	1	1	1	1							
	1676	Self Wt (kg/m)	46	74	110	129	160	184	234	268	298	<b>305</b>						
		BC Braces	1	1	1	1	1	1	1	1	1	1						
	1829	Self Wt (kg/m)	<b>42</b>	<b>71</b>	<b>103</b>	<b>124</b>	<b>157</b>	<b>178</b>	<b>214</b>	<b>242</b>	<b>274</b>	306	<b>316</b>					
		BC Braces	1	1	1	1	1	1	1	1	1	1	1					

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)														
				30 20	60 40	90 60	120 80	150 100	180 120	210 140	240 160	270 180	300 200	330 220	360 240	390 260	420 280	
18	12 N @ 1.5	1219	Self Wt (kg/m)	60	103	152	213	250	286									
			BC Braces	1	1	1	1	1	1									
		1321	Self Wt (kg/m)	53	105	142	187	224	283									
			BC Braces	1	1	1	1	1	1									
		1422	Self Wt (kg/m)	50	97	126	175	227	261	296								
			BC Braces	1	1	1	1	1	1	1								
	1524	Self Wt (kg/m)	49	98	121	159	229	235	296	307								
		BC Braces	1	1	1	1	1	1	1	1								
	1676	Self Wt (kg/m)	50	<b>84</b>	122	156	186	241	274	<b>306</b>	<b>317</b>							
		BC Braces	1	1	1	1	1	1	1	1	1							
	1829	Self Wt (kg/m)	<b>47</b>	85	<b>116</b>	<b>146</b>	<b>173</b>	<b>224</b>	<b>252</b>	310	319							
		BC Braces	1	1	1	1	1	1	1	1	1							
18	15 N @ 1.2	1219	Self Wt (kg/m)	71	121	187	254	296										
			BC Braces	1	1	1	1	1										
		1321	Self Wt (kg/m)	65	117	174	227	295										
			BC Braces	1	1	1	1	1										
		1422	Self Wt (kg/m)	57	116	158	229	298	306									
			BC Braces	1	1	1	1	1	1									
	1524	Self Wt (kg/m)	58	111	162	230	<b>240</b>	305										
		BC Braces	1	1	1	1	1	1										
	1676	Self Wt (kg/m)	<b>55</b>	113	144	188	243	307	<b>322</b>									
		BC Braces	1	1	1	1	1	1	1									
	1829	Self Wt (kg/m)	<b>55</b>	<b>106</b>	<b>136</b>	<b>175</b>	250	<b>259</b>	325									
		BC Braces	1	1	1	1	1	1	1									
20	6 N @ 3.33	1219	Self Wt (kg/m)	38	64	91	110	136	163	208	211	242	274					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1				
		1321	Self Wt (kg/m)	38	65	86	103	129	159	186	212	244	276	278				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1			
		1422	Self Wt (kg/m)	35	61	86	100	130	139	168	189	216	249	280	281			
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1524	Self Wt (kg/m)	<b>34</b>	57	86	95	118	142	163	189	217	221	255	283	284			
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1676	Self Wt (kg/m)	<b>34</b>	56	<b>70</b>	94	<b>106</b>	136	145	167	197	220	<b>229</b>	262	285	292		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1829	Self Wt (kg/m)	37	<b>51</b>	72	<b>92</b>	109	<b>124</b>	<b>142</b>	<b>154</b>	<b>171</b>	<b>201</b>	231	<b>235</b>	<b>268</b>	<b>268</b>		
		BC Braces	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
20	8 N @ 2.5	1219	Self Wt (kg/m)	44	83	104	148	185	210	276	281							
			BC Braces	1	1	1	1	1	1	1	1							
		1321	Self Wt (kg/m)	43	74	106	137	163	211	217	280	287						
			BC Braces	1	1	1	1	1	1	1	1	1						
		1422	Self Wt (kg/m)	38	74	104	121	150	191	221	255	288						
			BC Braces	1	1	1	1	1	1	1	1	1						
	1524	Self Wt (kg/m)	<b>37</b>	<b>65</b>	<b>94</b>	123	154	172	222	228	291	296						
		BC Braces	1	1	1	1	1	1	1	1	1	1						
	1676	Self Wt (kg/m)	<b>37</b>	<b>65</b>	<b>96</b>	<b>112</b>	146	<b>162</b>	203	229	239	297	305					
		BC Braces	1	1	1	1	1	1	1	1	1	1	1					
	1829	Self Wt (kg/m)	60	73	96	113	<b>140</b>	167	<b>188</b>	<b>217</b>	<b>237</b>	<b>268</b>	<b>297</b>					
		BC Braces	1	1	1	1	1	1	1	1	1	1	1					

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)														
				30	60	90	120	150	180	210	240	270	300	330	360	390	420	
				20	40	60	80	100	120	140	160	180	200	220	240	260	280	
20	9 N @ 2.22	1219	Self Wt (kg/m)	45	87	115	162	209	242	280								
			BC Braces	1	1	1	1	1	1	1								
		1321	Self Wt (kg/m)	45	85	107	152	188	218	283	288							
			BC Braces	1	1	1	1	1	1	1	1							
		1422	Self Wt (kg/m)	44	76	108	140	168	219	257	290							
			BC Braces	1	1	1	1	1	1	1	1							
		1524	Self Wt (kg/m)	41	76	107	130	169	222	227	292	299						
			BC Braces	1	1	1	1	1	1	1	1	1						
		1676	Self Wt (kg/m)	46	73	108	137	169	193	227	261	293						
			BC Braces	1	1	1	1	1	1	1	1	1						
			1829	Self Wt (kg/m)	46	72	104	126	152	175	213	236	272	303				
				BC Braces	1	1	1	1	1	1	1	1	1	1				
20	11 N @ 1.82	1219	Self Wt (kg/m)	54	102	149	210	248	287									
			BC Braces	1	1	1	1	1	1									
		1321	Self Wt (kg/m)	61	100	142	191	249	283									
			BC Braces	1	1	1	1	1	1									
		1422	Self Wt (kg/m)	56	94	141	174	225	289									
			BC Braces	1	1	1	1	1	1									
		1524	Self Wt (kg/m)	50	94	125	168	223	261	295								
			BC Braces	1	1	1	1	1	1	1								
		1676	Self Wt (kg/m)	52	94	118	151	204	234	268	309							
			BC Braces	1	1	1	1	1	1	1	1							
			1829	Self Wt (kg/m)	52	86	116	153	187	236	248	300	315					
				BC Braces	1	1	1	1	1	1	1	1	1					
20	13 N @ 1.54	1219	Self Wt (kg/m)	62	118	167	247	287										
			BC Braces	1	1	1	1	1										
		1321	Self Wt (kg/m)	63	110	171	221	289										
			BC Braces	1	1	1	1	1										
		1422	Self Wt (kg/m)	63	106	154	221	262	300									
			BC Braces	1	1	1	1	1	1									
		1524	Self Wt (kg/m)	57	109	147	200	231	292									
			BC Braces	1	1	1	1	1	1									
		1676	Self Wt (kg/m)	55	100	133	182	236	268	308								
			BC Braces	1	1	1	1	1	1	1								
			1829	Self Wt (kg/m)	53	103	134	167	216	248	308	321						
				BC Braces	1	1	1	1	1	1	1	1						
22	8 N @ 2.75	1321	Self Wt (kg/m)	45	84	112	148	187	213	277	279							
			BC Braces	1	1	1	1	1	1	1	1							
		1422	Self Wt (kg/m)	43	75	107	139	167	214	249	283							
			BC Braces	1	1	1	1	1	1	1	1							
		1524	Self Wt (kg/m)	44	75	102	139	162	194	221	284	291						
			BC Braces	1	1	1	1	1	1	1	1	1						
		1676	Self Wt (kg/m)	40	70	96	124	156	176	224	230	293	298					
			BC Braces	1	1	1	1	1	1	1	1	1	1					
		1829	Self Wt (kg/m)	38	66	98	113	152	170	204	231	268	299	307				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1				
			1981	Self Wt (kg/m)	60	77	101	121	149	180	203	237	266	280				
				BC Braces	1	1	1	1	1	1	1	1	1	1				



# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30	60	90	120	150	180	210	240	270	300	330	360	390	420		
				20	40	60	80	100	120	140	160	180	200	220	240	260	280		
22	10 N @ 2.2	1321	Self Wt (kg/m)	53	102	137	186	218	283										
			BC Braces	1	1	1	1	1	1										
		1422	Self Wt (kg/m)	49	91	128	167	220	282	290									
			BC Braces	1	1	1	1	1	1	1									
		1524	Self Wt (kg/m)	47	91	122	154	222	229	291									
			BC Braces	1	1	1	1	1	1	1									
		1676	Self Wt (kg/m)	56	91	120	167	196	255	261									
			BC Braces	1	1	1	1	1	1	1									
		1829	Self Wt (kg/m)	50	93	111	147	181	229	261	300								
			BC Braces	1	1	1	1	1	1	1	1								
		1981	Self Wt (kg/m)	51	92	111	144	177	211	239	272	303							
			BC Braces	1	1	1	1	1	1	1	1	1							
22	12 N @ 1.83	1321	Self Wt (kg/m)	66	107	169	217	278											
			BC Braces	1	1	1	1	1											
		1422	Self Wt (kg/m)	63	108	164	217	280											
			BC Braces	1	1	1	1	1											
		1524	Self Wt (kg/m)	64	105	154	195	254	286										
			BC Braces	1	1	1	1	1	1										
		1676	Self Wt (kg/m)	58	98	146	179	230	294	299									
			BC Braces	1	1	1	1	1	1	1									
		1829	Self Wt (kg/m)	52	101	130	176	233	267	298									
			BC Braces	1	1	1	1	1	1	1									
		1981	Self Wt (kg/m)	54	99	123	165	214	244	303	313								
			BC Braces	1	1	1	1	1	1	1	1								
22	15 N @ 1.47	1320	Self Wt (kg/m)																
			BC Braces																
		1422	Self Wt (kg/m)	76	129	192	285												
			BC Braces	1	1	1	1												
		1524	Self Wt (kg/m)	72	124	189	229	297											
			BC Braces	1	1	1	1	1											
		1676	Self Wt (kg/m)	66	117	160	232	296											
			BC Braces	1	1	1	1	1											
		1829	Self Wt (kg/m)	66	114	163	234	271	308										
			BC Braces	1	1	1	1	1	1										
		1981	Self Wt (kg/m)	62	116	158	204	246	308										
			BC Braces	1	1	1	1	1	1										
24	8 N @ 3	1524	Self Wt (kg/m)	46	79	108	139	185	215	249	285								
			BC Braces	1	1	1	1	1	1	1	1								
		1676	Self Wt (kg/m)	46	71	103	140	164	195	221	284	291							
			BC Braces	1	1	1	1	1	1	1	1	1							
		1829	Self Wt (kg/m)	42	70	100	125	158	198	225	261	294	300						
			BC Braces	1	1	1	1	1	1	1	1	1	1						
		1981	Self Wt (kg/m)	43	71	97	123	152	173	204	233	270	302	307					
			BC Braces	1	1	1	1	1	1	1	1	1	1	1					
		2134	Self Wt (kg/m)	82	91	104	130	162	181	207	238	258	279	310	314				
			BC Braces	1	1	1	1	1	1	1	1	1	1	1	1				
		2286	Self Wt (kg/m)	84	90	102	126	151	173	204	221	270	286						
			BC Braces	1	1	1	1	1	1	1	1	1	1						

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30 20	60 40	90 60	120 80	150 100	180 120	210 140	240 160	270 180	300 200	330 220	360 240	390 260	420 280		
24	10 N @ 2.4	1524	Self Wt (kg/m)	49	96	139	168	221	284	291									
			BC Braces	1	1	1	1	1	1	1									
		1676	Self Wt (kg/m)	47	86	124	157	223	256	293									
			BC Braces	1	1	1	1	1	1	1									
		1829	Self Wt (kg/m)	54	96	133	168	208	257	289									
			BC Braces	1	1	1	1	1	1	1									
		1981	Self Wt (kg/m)	53	90	120	163	192	231	262	301								
			BC Braces	1	1	1	1	1	1	1	1								
		2134	Self Wt (kg/m)	52	85	115	144	179	214	267	275								
			BC Braces	1	1	1	1	1	1	1	1								
		2286	Self Wt (kg/m)	55	84	109	146	175	203	242	274	307							
			BC Braces	1	1	1	1	1	1	1	1	1							
24	12 N @ 2	1524	Self Wt (kg/m)	67	110	164	218	279											
			BC Braces	1	1	1	1	1											
		1676	Self Wt (kg/m)	61	106	144	197	254	287										
			BC Braces	1	1	1	1	1	1										
		1829	Self Wt (kg/m)	57	103	147	180	230	295										
			BC Braces	1	1	1	1	1	1										
		1981	Self Wt (kg/m)	55	100	133	177	233	270	308									
			BC Braces	1	1	1	1	1	1	1									
		2134	Self Wt (kg/m)	55	94	133	167	216	247	307	313								
			BC Braces	1	1	1	1	1	1	1	1								
		2286	Self Wt (kg/m)	58	92	126	163	193	251	284	314								
			BC Braces	1	1	1	1	1	1	1	1								
24	14 N @ 1.71	1524	Self Wt (kg/m)	69	121	190	250												
			BC Braces	1	1	1	1												
		1676	Self Wt (kg/m)	65	113	175	223	291											
			BC Braces	1	1	1	1	1											
		1831	Self Wt (kg/m)																
			BC Braces																
		1981	Self Wt (kg/m)	60	113	154	205	272	303										
			BC Braces	1	1	1	1	1	1										
		2134	Self Wt (kg/m)	57	105	157	189	245	304	314									
			BC Braces	1	1	1	1	1	1	1									
		2286	Self Wt (kg/m)	60	106	141	185	248	286	320									
			BC Braces	1	1	1	1	1	1	1									
24	16 N @ 1.5	1524	Self Wt (kg/m)	76	140	218	285												
			BC Braces	1	1	1	1												
		1676	Self Wt (kg/m)	74	127	197	291												
			BC Braces	1	1	1	1												
		1831	Self Wt (kg/m)																
			BC Braces																
		1981	Self Wt (kg/m)	67	120	168	240	305											
			BC Braces	1	1	1	1	1											
		2134	Self Wt (kg/m)	63	117	172	243	283	320										
			BC Braces	1	1	1	1	1	1										
		2286	Self Wt (kg/m)	63	122	167	214	262	323										
			BC Braces	1	1	1	1	1	1										

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder	Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)														
					30 20	60 40	90 60	120 80	150 100	180 120	210 140	240 160	270 180	300 200	330 220	360 240	390 260	420 280	
27	9 N @ 3	1676	Self Wt (kg/m)	51	90	131	163	214	247	284									
			BC Braces	1	1	1	1	1	1	1									
		1831	Self Wt (kg/m)																
			BC Braces																
		1981	Self Wt (kg/m)	<b>49</b>	<b>82</b>	<b>108</b>	148	<b>175</b>	226	261	297								
			BC Braces	1	1	1	1	1	1	1	1								
		2134	Self Wt (kg/m)	83	94	127	159	180	230	261	273	<b>308</b>							
			BC Braces	1	1	1	1	1	1	1	1	1							
		2286	Self Wt (kg/m)	85	92	117	161	197	<b>207</b>	264	<b>271</b>								
			BC Braces	1	1	1	1	1	1	1	1								
		2438	Self Wt (kg/m)	86	95	119	<b>145</b>	176	209	<b>247</b>	274								
			BC Braces	1	1	1	1	1	1	1	1								
27	10 N @ 2.7	1676	Self Wt (kg/m)	<b>53</b>	98	141	192	221	285										
			BC Braces	1	1	1	1	1	1										
		1831	Self Wt (kg/m)																
			BC Braces																
		1981	Self Wt (kg/m)	61	100	137	188	210	260										
			BC Braces	1	1	1	1	1	1										
		2134	Self Wt (kg/m)	63	98	136	165	202	261	<b>264</b>									
			BC Braces	1	1	1	1	1	1	1									
		2286	Self Wt (kg/m)	63	97	<b>122</b>	166	<b>198</b>	237	268									
			BC Braces	1	1	1	1	1	1	1									
		2438	Self Wt (kg/m)	64	<b>92</b>	124	<b>161</b>	200	<b>218</b>	271	<b>280</b>								
			BC Braces	1	1	1	1	1	1	1	1								
27	12 N @ 2.25	1676	Self Wt (kg/m)	68	117	173	219	282											
			BC Braces	1	1	1	1	1											
		1831	Self Wt (kg/m)																
			BC Braces																
		1981	Self Wt (kg/m)	70	109	149	199	260	299										
			BC Braces	1	1	1	1	1	1										
		2134	Self Wt (kg/m)	62	105	143	183	236	273										
			BC Braces	1	1	1	1	1	1										
		2286	Self Wt (kg/m)	<b>60</b>	107	147	<b>179</b>	221	277	304									
			BC Braces	1	1	1	1	1	1	1									
		2438	Self Wt (kg/m)	<b>60</b>	<b>100</b>	<b>135</b>	182	<b>220</b>	<b>254</b>	<b>281</b>									
			BC Braces	1	1	1	1	1	1	1									
27	15 N @ 1.8	1676	Self Wt (kg/m)	75	141	219	285												
			BC Braces	1	1	1	1												
		1831	Self Wt (kg/m)																
			BC Braces																
		1981	Self Wt (kg/m)	73	127	183	235	299											
			BC Braces	1	1	1	1	1											
		2134	Self Wt (kg/m)	71	122	179	239	303											
			BC Braces	1	1	1	1	1											
		2286	Self Wt (kg/m)	<b>66</b>	<b>119</b>	170	<b>218</b>	278	<b>315</b>										
			BC Braces	1	1	1	1	1	1										
		2438	Self Wt (kg/m)	<b>66</b>	122	<b>164</b>	223	<b>253</b>	317										
			BC Braces	1	1	1	1	1	1										

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30 20	60 40	90 60	120 80	150 100	180 120	210 140	240 160	270 180	300 200	330 220	360 240	390 260	420 280		
27	18 N @ 1.5	1676	Self Wt (kg/m)	87	172	253													
			BC Braces	1	1	1													
		1831	Self Wt (kg/m)																
			BC Braces																
		1981	Self Wt (kg/m)	79	150	230	303												
			BC Braces	1	1	1	1												
		2134	Self Wt (kg/m)	81	137	210	276												
			BC Braces	1	1	1	1												
		2286	Self Wt (kg/m)	<b>76</b>	140	<b>195</b>	<b>253</b>	<b>323</b>											
			BC Braces	1	1	1	1	1											
2438	Self Wt (kg/m)	77	<b>133</b>	199	257	325													
	BC Braces	1	1	1	1	1													
30	10 N @ 3	1981	Self Wt (kg/m)	<b>62</b>	<b>95</b>	145	175	224	287										
			BC Braces	1	1	1	1	1	1										
		2134	Self Wt (kg/m)	84	101	156	189	228	262	300									
			BC Braces	1	1	1	1	1	1	1	1								
		2286	Self Wt (kg/m)	85	103	139	193	214	263										
			BC Braces	1	1	1	1	1	1	1									
		2438	Self Wt (kg/m)	87	100	140	173	206	265										
			BC Braces	1	1	1	1	1	1	1									
		2591	Self Wt (kg/m)	88	101	<b>135</b>	174	<b>204</b>	244	<b>272</b>									
			BC Braces	1	1	1	1	1	1	1	1								
2743	Self Wt (kg/m)	89	100	137	<b>169</b>	<b>204</b>	<b>226</b>	278											
	BC Braces	1	1	1	1	1	1	1	1										
30	12 N @ 2.5	1981	Self Wt (kg/m)	70	118	170	221	288											
			BC Braces	1	1	1	1	1	1										
		2134	Self Wt (kg/m)	<b>67</b>	109	164	210	262											
			BC Braces	1	1	1	1	1	1										
		2286	Self Wt (kg/m)	68	111	153	201	265	302										
			BC Braces	1	1	1	1	1	1	1									
		2438	Self Wt (kg/m)	<b>67</b>	107	148	198	240	<b>276</b>										
			BC Braces	1	1	1	1	1	1	1									
		2591	Self Wt (kg/m)	<b>67</b>	109	149	<b>184</b>	231	280	308									
			BC Braces	1	1	1	1	1	1	1	1								
2743	Self Wt (kg/m)	70	<b>106</b>	<b>146</b>	188	<b>227</b>	283	<b>286</b>											
	BC Braces	1	1	1	1	1	1	1	1										
30	14 N @ 2.14	1981	Self Wt (kg/m)	72	134	194	257												
			BC Braces	1	1	1	1												
		2134	Self Wt (kg/m)	72	122	178	259	297											
			BC Braces	1	1	1	1	1											
		2286	Self Wt (kg/m)	71	123	175	232	299											
			BC Braces	1	1	1	1	1											
		2438	Self Wt (kg/m)	<b>70</b>	115	172	221	277											
			BC Braces	1	1	1	1	1											
		2591	Self Wt (kg/m)	72	117	160	213	280	309										
			BC Braces	1	1	1	1	1	1	1									
2743	Self Wt (kg/m)	73	<b>114</b>	<b>157</b>	<b>195</b>	<b>254</b>	<b>285</b>												
	BC Braces	1	1	1	1	1	1	1											

# JOIST GIRDER LOAD TABLES

## METRIC

Joist Girder Span (m)	Joist Spaces (m)	Girder Depth (mm)	Factored Load Service Load	Load on Each Panel Point (kN)															
				30 20	60 40	90 60	120 80	150 100	180 120	210 140	240 160	270 180	300 200	330 220	360 240	390 260	420 280		
30	16 N @ 1.88	1981	Self Wt (kg/m)	83	145	222	291												
			BC Braces	1	1	1	1												
		2134	Self Wt (kg/m)	77	141	202	268												
			BC Braces	1	1	1	1												
		2286	Self Wt (kg/m)	<b>76</b>	134	187	273	307											
			BC Braces	1	1	1	1	1											
		2438	Self Wt (kg/m)	77	127	191	245	311											
			BC Braces	1	1	1	1	1											
		2591	Self Wt (kg/m)	80	<b>126</b>	188	247	<b>286</b>											
			BC Braces	1	1	1	1	1											
		2743	Self Wt (kg/m)	82	130	<b>180</b>	<b>229</b>	292	<b>329</b>										
			BC Braces	1	1	1	1	1	1										
30	18 N @ 1.67	1981	Self Wt (kg/m)	87	157	228	301												
			BC Braces	1	1	1	1												
		2134	Self Wt (kg/m)	<b>82</b>	151	232	305												
			BC Braces	1	1	1	1												
		2286	Self Wt (kg/m)	<b>82</b>	154	235	308												
			BC Braces	1	1	1	1												
		2438	Self Wt (kg/m)	83	141	220	278	<b>324</b>											
			BC Braces	1	1	1	1	1											
		2591	Self Wt (kg/m)	84	139	201	<b>255</b>	328											
			BC Braces	1	1	1	1	1											
		2743	Self Wt (kg/m)	85	<b>135</b>	<b>197</b>	261	330											
			BC Braces	1	1	1	1	1											
30	20 N @ 1.5	1981	Self Wt (kg/m)	92	179	294													
			BC Braces	1	1	1													
		2134	Self Wt (kg/m)	93	165	237	310												
			BC Braces	1	1	1	1												
		2286	Self Wt (kg/m)	<b>89</b>	167	244	313												
			BC Braces	1	1	1	1												
		2438	Self Wt (kg/m)	<b>89</b>	165	247	322												
			BC Braces	1	1	1	1												
		2591	Self Wt (kg/m)	96	170	228	330												
			BC Braces	1	1	1	1												
		2743	Self Wt (kg/m)	93	<b>154</b>	<b>226</b>	<b>273</b>	<b>343</b>											
			BC Braces	1	1	1	1	1											