

STANDARD WEIGHT TABLES FOR JOIST GIRDERS

Based on 50 ksi Maximum Yield Strength
Adopted by the Steel Joist Institute May 17, 2016

The Joist Girders presented in the following tables are based on the Steel Joist Institute Standard Specifications for K-Series, LH- Series, and DLH- Series Open Web Steel Joists and for Joist Girders adopted November 4, 1985 – revised to November 10, 2014, Effective January 1, 2015 and all the requirements contained therein shall be followed.

The Joist Girders top chords are considered as being laterally supported by positive attachment of the supported steel joists to the Joist Girder top chord.

The top of the table presents the total kip load on each panel point (joist location). The tables can be utilized with either an ASD load in the green row, or a LRFD load (factored) in the blue row.

These weight tables are intended to be a tool to assist in the preliminary design and estimate for Joist Girders used in floors and roofs. All of the values are approximate and intended as a guide for the specifying professional. The joist manufacturer will design for the specific loads of the designation at the required span, and the values for self-weight may vary from the tabulated values – the tabulated values are not design minimums or maximums. It is presumed that the designated kip load includes an allowance for the Joist Girder self-weight, unless noted otherwise on the structural drawings.

There are countless combinations of span, number of panels, kip loads, and Joist Girder depth and the tables do not represent all available combinations. Interpolation can be used for approximate values when needed between columns and rows of the tables.

Consult with a joist manufacturer for information regarding web openings available for duct passage through Joist Girders.

Joist Girders that are anticipated to have chord angles of 6 x 6 or smaller which are un-shaded in the table shall have a standard 7 ½ inch bearing seat depth (height). The weight table includes high capacity Joist Girders that may utilize 8 x 8 chord angles. The Joist Girders that weigh 150 plf or more are shaded grey in the table and shall have a standard 10 inch minimum bearing seat depth. It is suggested that the joist manufacturer be consulted for lead times and availability of Joist Girders in the grey shaded portion of the table due to the possibility of 8 x 8 chord angles.

Example

Using the Joist Girder Weight Table

- 1) Joist Girder depth = 40 inch
- 2) Joist Girder span = 50 feet
- 3) Number of joist spaces = 8
- 4) Load at each panel point = 12 kips (ASD)

In this example, the corresponding Joist Girder designation is 40G8N12K.

Entering the weight tables for a Joist Girder span of 50 feet, a number of joist spaces equal to 8, a Joist Girder depth of 40 inch, and a panel point loading of 12 kips (ASD), the approximate self-weight of the Joist Girder is 59 pounds per linear foot.

STANDARD WEIGHTS JOIST GIRDERS

GIRDER SPAN (ft)	JOIST SPACES (ft)	GIRDER DEPTH (in)	JOIST GIRDER WEIGHT -- POUNDS PER LINEAR FOOT																					
			LOAD ON EACH PANEL POINT -- KIPS																	ASD		LRFD		
			6	8	10	12	14	16	18	20	24	28	32	36	40	44	48	52	56	60	70	80	90	100
20	2N@ 10.00	20	19	19	19	19	20	24	24	25	30	37	41	46	50	56	62	70	75	75	80	91	121	128
		24	19	19	19	19	20	21	21	25	28	32	36	41	42	49	52	53	66	66	74	83	110	118
	3N@ 6.67	20	15	19	19	20	23	24	27	31	36	44	48	54	74	75	81	84	89	96	110	122		
		24	16	16	16	19	20	23	26	27	33	36	45	47	53	56	68	79	82	84	98	108	126	
	4N@ 5.00	20	15	19	21	25	29	33	38	41	50	57	65	71	88	97	100	107	120	126	149			
		24	16	17	20	23	26	29	32	35	44	50	55	62	71	85	90	100	102	109	130	154		
	5N@ 4.00	20	17	21	26	31	36	39	48	51	62	71	82	99	99	109	120	141	142					
24		16	17	20	23	26	29	32	35	44	53	60	68	80	91	101	103	110	120	134	158			
6N@ 3.33	20	19	25	29	36	41	50	57	58	72	82	99	107	118	138	141								
	24	18	22	28	31	37	43	46	53	61	70	85	102	102	111	123	144	147	175					
8N@ 2.50	20	25	32	41	51	58	65	72	82	99	118	139	142											
	24	22	29	34	40	47	54	61	67	76	88	107	112	124	135	155	166	196	198	246	277	285		
22	2N@ 11.00	20	21	21	22	22	23	24	24	25	34	39	43	49	55	62	69	76	78	82	90	108	129	130
		24	21	21	22	22	23	24	24	24	30	33	41	41	45	51	55	61	73	76	82	94	112	118
	3N@ 7.33	20	18	19	22	24	26	29	33	42	45	53	68	70	76	84	88	94	104	120	138			
		24	15	19	19	20	23	24	26	30	35	40	45	48	55	61	74	81	84	92	98	113	127	126
	4N@ 5.50	20	16	19	23	26	30	36	39	44	55	62	71	82	95	96	106	119	134	144				
		24	15	17	20	25	27	29	34	38	48	52	58	71	79	89	98	101	107	115	144	153		
	5N@ 4.40	20	17	24	27	34	38	42	49	55	65	75	96	98	111	126	137	158						
24		16	18	24	28	33	38	40	48	56	62	73	85	100	101	110	116	133	153	159	170	183		
6N@ 3.67	20	21	27	33	39	49	56	57	65	79	97	106	118	137										
	24	19	23	28	32	39	45	51	58	66	82	98	101	109	120	142	144							
8N@ 2.75	20	27	36	43	56	64	71	80	96	106	135	138												
	24	24	31	38	46	53	60	68	75	101	105	125	145	149										
25	3N@ 8.33	20	18	19	22	26	27	30	37	41	49	59	66	70	76	86	89	97	102	115	137			
		24	18	19	20	22	25	26	28	32	39	43	51	59	67	71	81	84	89	96	111	122		
	4N@ 6.25	20	18	20	25	29	35	39	42	49	55	70	78	93	99	109	119	134	135					
		24	16	19	21	26	29	33	37	40	50	57	64	72	88	97	100	106	110	120	126	149		
	5N@ 5.00	20	18	23	26	32	36	42	47	53	61	75	81	98	102	112	129	140	160					
		24	16	20	24	28	31	37	41	47	56	62	72	79	93	101	106	117	125	152	167	195	215	248
	6N@ 4.17	20	17	18	22	26	28	31	36	39	48	54	64	69	75	88	96	101	108	119	133	159	184	188
24		18	23	28	32	38	44	51	55	67	73	87	101	104	120	134	143	145	176	197	234	256	301	
8N@ 3.12	20	29	39	48	58	70	78	94	99	115	134	138												
	24	26	33	41	50	57	65	75	81	99	118	138	127	147	188	188	207	215	245	284				
10N@ 2.50	20	38	49	63	78	94	100	115	134															
	24	33	42	54	65	75	89	99	104	130														



STANDARD WEIGHTS JOIST GIRDERS

GIRDER SPAN (ft)	JOIST SPACES (ft)	GIRDER DEPTH (in)	LOAD ON EACH PANEL POINT -- KIPS																				ASD		LRFD	
			6	8	10	12	14	16	18	20	24	28	32	36	40	44	48	52	56	60	70	80	90	100		
			9	12	15	18	21	24	27	30	36	42	48	54	60	66	72	78	84	90	105	120	135	150		
48	5N@ 9.60	36	26	31	37	45	52	59	66	71	87	111	113	135	136	152	167	176	189	200	228	269				
		40	23	29	35	41	46	52	59	68	77	92	112	114	136	138	155	161	178	188	203	237	272			
		44	22	27	32	37	44	48	54	61	69	80	93	113	116	126	139	150	160	174	195	226	253	275		
		48	21	25	30	36	40	48	48	55	69	78	90	96	115	116	128	140	142	166	185	219	241	263		
		52	21	25	29	33	39	42	50	54	62	71	82	92	99	117	118	130	141	157	178	206	224	241		
	56	21	24	29	33	38	40	46	50	59	71	79	85	100	100	119	120	133	146	170	200	212	226			
	6N@ 8.00	36	28	35	42	51	62	70	78	83	100	122	134	147	163	175	189	202	222	233	277					
		40	25	33	39	47	56	64	71	79	93	112	124	137	148	168	179	189	212	222	247	282				
		44	24	31	36	45	50	57	65	73	81	102	115	127	138	151	168	173	192	204	236	262	292			
		48	23	30	35	40	48	52	59	67	78	95	105	116	129	141	160	166	175	186	220	252	279	310		
		52	23	27	32	38	46	51	59	60	75	83	97	107	130	131	144	162	169	178	208	234	259	290		
	56	22	27	31	37	42	48	54	61	69	80	91	107	120	132	134	153	165	166	191	208	246	267			
	8N@ 6.00	36	36	45	56	64	78	91	100	122	134	153	167	186	213	234	257	278								
		40	33	42	51	59	70	80	92	101	124	148	157	170	191	208	229	248	272	288						
		44	32	39	49	55	65	74	82	95	114	127	150	161	185	193	212	223	244	268						
		48	30	37	47	53	60	68	76	84	105	129	131	154	174	189	197	216	226	247	290					
		52	30	36	44	51	59	65	71	80	99	119	132	146	164	185	195	209	221	239	283					
	56	28	36	43	49	57	63	69	78	90	109	123	136	155	168	189	198	209	228	258	294					
	9N@ 5.33	36	44	55	70	79	91	99	121	122	146	165	190	215	237	252	279									
		40	42	52	63	74	88	93	101	113	136	156	179	195	218	230	256	284								
		44	39	50	59	69	83	91	94	103	126	150	168	182	199	222	236	257	285	302						
		48	37	46	56	66	76	85	94	97	118	130	162	175	190	217	224	247	273	290						
		52	36	46	54	63	72	80	95	101	108	132	152	167	188	212	220	242	251	277						
	56	35	44	53	62	69	80	89	98	103	123	137	165	180	207	211	236	240	271	314						
12N@ 4.00	36	52	71	84	100	123	135	148	167	190	230	256	289													
	40	48	65	76	93	113	125	137	149	177	206	233	260	288												
	44	44	57	73	82	102	115	126	139	159	193	211	239	271	297											
	48	41	53	67	76	88	104	117	130	153	175	197	221	246	276	301										
	52	39	52	61	76	84	97	107	131	144	168	190	212	237	261	280	306									
56	38	49	61	70	81	91	108	122	135	165	183	195	217	242	266	287	312									
50	5N@ 10.00	40	23	30	38	44	47	56	60	68	79	93	113	124	136	138	155	165	177	182	216	257	279			
		44	22	29	34	40	46	51	56	61	76	89	94	113	126	137	139	157	172	180	203	236	255	292		
		48	22	28	31	38	42	48	55	61	69	78	94	96	115	127	139	141	160	172	192	207	241	262		
		52	22	25	31	35	40	45	49	55	62	74	82	96	116	117	129	141	142	161	186	203	227	243		
		56	22	25	30	32	40	43	50	51	63	71	83	92	99	117	119	131	142	146	169	199	219	231		
	60	20	24	30	33	36	42	46	51	58	65	76	86	96	101	120	121	133	142	166	174	198	226			
	6N@ 8.33	40	28	34	42	48	56	64	71	80	100	112	124	147	155	167	178	191	204	231	258					
		44	24	31	38	47	50	57	65	73	85	102	124	127	149	159	168	181	191	213	246	270				
		48	23	30	37	40	49	57	65	67	82	95	115	127	129	151	162	173	184	195	229	250	292			
		52	23	30	36	40	46	52	59	67	75	84	105	117	129	131	153	162	176	188	218	242	269	300		
		56	23	26	33	39	42	51	54	60	72	84	98	107	120	132	144	163	164	176	209	225	257	280		
	60	23	27	33	38	43	49	53	61	70	80	87	102	110	123	134	154	165	171	182	207	247	264			
	8N@ 6.25	40	31	39	51	59	67	78	86	96	110	135	166	177	193	217	244	259	281							
		44	29	37	47	53	61	70	80	96	103	118	139	170	182	198	221	230	254	276						
		48	27	35	42	51	58	69	76	81	99	114	130	142	175	186	201	224	242	255	297					
		52	25	33	40	49	55	63	70	78	99	107	121	141	164	178	197	207	218	236	281					
		56	29	36	42	47	56	64	68	78	94	108	118	137	148	169	192	204	212	230	271	315				
	60	27	35	40	47	55	61	69	74	83	103	110	123	139	149	182	200	208	215	258	291	312				
	9N@ 5.56	40	34	44	55	66	74	86	96	104	134	155	179	203	219	242	256	286								
		44	32	40	53	61	69	80	88	98	113	138	169	195	207	223	244	267	293							
		48	32	42	52	58	69	77	90	99	111	133	163	184	201	216	241	250	274	300						
		52	31	40	47	58	66	74	79	92	106	126	143	178	192	207	222	244	254	278	312					
		56	30	38	46	55	60	68	77	89	102	116	135	166	181	197	211	237	251	272	309					
	60	32	38	49	53	61	70	75	83	97	111	125	141	179	192	209	227	239	266	303						
10N@ 5.00	40	38	49	60	74	87	96	104	116	139	177	194	220	244	269											
	44	36	47	60	68	84	96	102	112	137	170	188	211	235	264	289	294									
	48	34	46	54	65	76	89	99	103	130	159	182	205	217	239	268	284	298								
	52	34	45	52	62	70	79	91	100	114	134	164	185	207	222	239	270	282	305							
	56	32	41	48	60	70	76	87	93	107	134	146	174	198	211	232	250	279	283							
60	31	40	49	57	66	73	81	94	109	119	138	169	180	201	225	230	253	272								
12N@ 4.17	40	49	65	80	100	112	125	147	157	180	206	241	269													
	44	44	57	73	86	102	126	127	149	168	192	227	248	280	302											
	48	41	58	67	82	96	115	127	130	154	184	199	230	254	284	310										
	52	39	53	68	76	84	105	118	130	154	176	189	219	244	263	289	314									
	56	40	52	61	70	85	99	108	122	135	164	182	210	228	252	270	296									
60	39	49	61	70	82	88	104	112	135	166	175	196	219	242	258	274	302									



STANDARD WEIGHTS JOIST GIRDERS

GIRDER SPAN (ft)	JOIST SPACES (ft)	GIRDER DEPTH (in)	JOIST GIRDER WEIGHT -- POUNDS PER LINEAR FOOT																			
			LOAD ON EACH PANEL POINT -- KIPS															ASD			LRFD	
			6	8	10	12	14	16	18	20	22	24	26	28	30	35	40	45	50	55	60	65
55	5N@ 11.00	44	24	29	35	41	47	53	59	63	71	82	83	86	97	110	127	141	157	174	193	207
		48	23	28	32	38	43	49	56	60	64	71	73	83	93	104	121	133	148	167	179	193
		52	23	27	32	36	42	44	52	57	65	66	74	74	90	99	114	124	139	156	170	181
		56	24	26	31	36	39	44	51	53	58	66	66	74	79	92	110	121	135	148	162	173
		60	24	27	31	35	38	45	47	52	60	61	67	68	80	88	101	115	124	138	147	163
	66	24	26	28	34	37	42	47	48	55	56	62	69	73	83	99	109	118	128	143	155	167
	6N@ 9.17	44	26	33	38	45	52	59	66	75	86	86	98	101	117	136	155	174	189	207	232	247
		48	24	31	36	44	50	56	64	68	75	87	89	94	109	122	147	155	181	194	214	237
		52	24	29	35	41	48	54	61	64	72	75	80	88	106	117	139	149	164	188	196	208
		56	24	28	35	39	47	52	55	63	70	71	78	82	101	113	122	140	158	176	187	195
		60	24	29	33	38	43	48	55	60	64	71	75	80	95	108	116	132	153	158	179	187
	66	22	28	31	36	40	47	50	56	62	65	73	86	102	112	128	136	143	160	181	187	181
	7N@ 7.86	44	28	36	44	53	59	70	75	87	97	102	111	120	135	152	178	189	219	236	257	274
		48	27	34	43	51	56	65	72	76	89	98	103	110	120	135	171	184	207	228	241	263
		52	26	33	39	46	55	62	69	74	86	91	100	105	116	126	160	175	190	207	234	252
		56	25	31	38	46	53	55	64	70	79	87	92	101	111	118	148	158	182	203	221	240
		60	24	30	36	41	49	56	64	68	72	81	93	94	108	111	140	141	169	192	203	224
	66	24	30	36	40	48	52	58	65	70	74	83	84	103	106	129	134	159	177	196	208	208
	9N@ 6.11	44	34	46	55	67	74	87	98	105	116	135	137	158	169	199	229	240	284			
		48	32	40	53	61	69	81	97	103	107	118	129	139	165	183	208	238	259	291		
52		33	43	52	65	73	77	90	104	105	114	125	133	157	177	203	231	249	273	301		
56		32	43	51	59	67	75	87	92	105	107	117	128	143	161	193	217	242	259	286	302	
60		32	40	47	56	67	71	80	93	95	108	109	118	139	145	188	199	224	248	277	291	
66	31	39	46	54	61	71	78	83	91	97	111	113	127	136	172	185	207	222	255	269	269	
11N@ 5.00	44	43	55	67	87	97	106	126	137	158	178	180	193	208	246	285						
	48	39	54	65	76	89	103	112	128	139	160	171	183	197	235	263	272					
	52	37	52	62	73	88	99	105	115	131	142	161	174	185	211	243	266	302				
	56	39	48	60	68	80	93	102	107	118	134	146	166	174	198	230	259	290	304			
	60	36	47	58	67	77	82	95	108	110	121	137	148	164	191	227	248	275	289	289		
66	37	45	54	65	74	82	97	98	113	117	126	141	151	184	206	226	261	275	301	308	308	
60	5N@ 12.00	48	27	33	39	44	51	57	63	69	76	87	89	94	98	108	128	152	164	180	190	208
		52	27	31	36	44	47	52	60	65	69	77	85	90	94	103	125	133	155	168	179	189
		56	24	30	34	41	45	52	59	63	69	74	78	87	90	100	116	128	139	156	173	185
		60	24	29	34	40	45	49	53	60	66	70	75	80	87	95	112	121	135	145	164	175
		66	24	30	33	36	42	47	51	56	61	67	72	73	81	92	102	117	123	133	148	167
	72	25	27	31	36	39	45	48	56	56	63	69	70	75	83	99	110	118	129	144	150	150
	6N@ 10.00	48	29	36	41	49	60	67	72	80	93	93	112	113	119	128	156	174	189	205	227	242
		52	28	33	39	48	57	62	69	78	80	94	94	113	116	122	147	159	181	195	214	237
		56	25	33	39	48	51	58	66	69	79	83	95	96	106	107	139	150	174	187	198	222
		60	24	32	39	43	50	57	63	70	75	83	83	96	101	103	123	133	165	176	187	205
		66	24	32	34	42	50	52	61	65	69	77	84	85	96	98	119	126	151	167	179	196
	72	24	28	34	41	44	52	54	63	68	71	75	87	87	93	113	119	145	156	169	182	182
	8N@ 7.50	48	34	43	56	64	72	80	93	112	123	125	136	148	155	173	194	233	248	262		
		52	31	40	50	58	72	81	94	103	114	125	127	139	146	174	191	209	231	251	276	292
		56	31	38	49	58	66	75	83	96	104	116	127	129	139	148	176	192	215	240	251	269
		60	32	39	47	53	61	69	77	85	98	106	118	122	124	140	170	184	205	229	242	260
		66	33	41	46	53	62	70	78	82	90	100	108	120	122	123	161	171	198	207	231	251
	72	31	36	46	52	59	66	73	80	90	92	104	110	114	118	150	158	190	202	226	251	244
	10N@ 6.00	48	37	49	60	74	87	97	105	118	137	138	167	180	190	233	245	264				
		52	38	50	64	71	88	97	103	113	130	138	160	173	181	208	237	257				
56		37	46	58	65	76	90	104	105	123	131	143	160	172	193	228	251	281	305			
60		37	45	57	66	73	86	93	104	111	126	134	159	167	182	217	244	270	288			
66		37	49	56	65	74	85	95	102	120	122	134	145	146	164	199	218	242	262	292	307	
72	33	42	50	59	69	74	83	96	98	111	121	142	142	158	193	201	226	250	281	296	296	
12N@ 5.00	48	46	59	75	87	102	111	135	158	169	181	194	207	233	250	291						
	52	45	57	69	88	98	104	118	139	160	169	183	196	206	241	283						
	56	41	55	66	77	91	104	113	129	140	162	174	185	198	235	266	285					
	60	39	54	64	74	91	102	106	121	133	145	165	177	188	205	245	263	309				
	66	41	53	62	77	87	100	110	119	134	147	164	171	182	194	230	251	283	297			
72	38	50	60	69	77	86	100	110	114	127	142	151	165	183	218	245	270	286	314			
15N@ 4.00	48	64	80	102	124	136	158	170	189	209	235	252	267	293								
	52	57	74	94	114	127	150	161	182	193	212	232	252	268								
	56	53	71	83	104	127	140	153	171	186	198	215	234	247	276							
	60	51	68	83	98	118	132	144	162	178	189	207	219	235	261	308						
	66	49	62	81	87	110	123	136	153	167	183	193	210	217	253	289						
72	46	64	77	90	106	125	139	142	160	171	179	200	208	248	276	289						



STANDARD WEIGHTS JOIST GIRDERS

GIRDER SPAN (ft)	JOIST SPACES (ft)	GIRDER DEPTH (in)	JOIST GIRDER WEIGHT -- POUNDS PER LINEAR FOOT																						
			LOAD ON EACH PANEL POINT -- KIPS																	ASD		LRFD			
			6	8	10	12	14	16	18	20	22	24	26	28	30	35	40	45	50	55	60	65			
75	8N@ 9.38	56	40	49	61	73	82	95	116	128	140	152	156	166	186	219	245	261	275	280	289	297			
		60	38	48	58	70	80	92	97	116	118	130	142	153	158	177	206	234	251	263	280	289			
		66	35	44	53	64	72	82	98	99	118	120	132	144	152	169	186	207	234	244	269	289	297		
		72	34	43	52	61	71	79	87	100	101	121	122	134	141	158	178	189	213	237	253	267	267		
		78	34	43	54	61	69	77	81	89	103	105	123	125	131	150	168	183	207	218	246	261	261		
	10N@ 7.50	60	42	59	69	83	98	117	129	131	154	159	170	182	194	234	247	277	292	293					
		66	42	55	69	78	87	100	119	132	134	153	163	174	184	207	241	265	280	289					
		72	42	54	63	73	86	101	111	123	136	138	154	163	176	194	228	256	280	289					
		78	39	48	63	74	82	91	105	114	127	139	152	157	165	177	221	237	261	278					
		84	39	49	59	69	78	94	95	110	128	131	143	156	150	166	197	225	247	267	293				
	12N@ 6.25	60	51	68	84	98	118	131	144	159	181	183	195	206	236	265									
		66	50	62	79	90	110	122	135	148	164	172	185	198	209	249	277								
		72	46	63	73	90	104	124	126	141	154	166	170	188	199	234	259	275							
		78	47	61	76	86	98	105	126	139	152	163	166	178	188	208	250	265	301						
		84	46	56	70	79	92	106	126	139	141	164	171	171	175	191	235	253	279	288					
	14N@ 5.36	66	56	72	89	111	125	137	160	171	184	199	209	232	241	270									
		72	52	70	84	101	121	134	148	166	179	190	202	221	233	260	297								
		78	53	68	80	98	107	125	139	151	174	183	192	215	225	249	277								
		84	52	64	79	92	108	127	130	153	171	179	186	196	204	227	271	284							
		90	50	66	77	94	110	119	142	144	173	176	178	179	197	203	260	275							
15N@ 5.00	66	60	77	98	118	132	146	164	185	196	215	226	244	268	273										
	72	59	74	87	110	123	146	160	169	189	201	222	221	248	264	312									
	78	54	73	88	104	124	139	152	169	177	195	207	213	228	257	308									
	84	55	67	86	93	116	131	143	171	174	189	193	206	219	250	287	302								
	90	52	69	81	95	118	133	145	146	177	179	182	202	212	246	280	294								
80	8N@ 10.00	60	37	45	56	64	75	88	97	103	112	127	137	156	162	189	208	234	261	277	287	288			
		66	35	45	52	62	70	77	90	103	105	113	129	131	155	176	197	226	243	258	287	288			
		72	33	41	48	59	68	76	87	92	106	108	116	126	141	170	187	203	235	250	268	288			
		78	33	41	47	56	64	73	81	88	94	109	111	118	136	156	178	195	216	238	255	269			
		84	35	39	48	56	63	71	79	83	96	98	112	114	129	146	173	184	210	216	247	256			
	10N@ 8.00	60	41	53	68	76	97	103	112	129	139	159	180	191	195	234	255	267							
		66	39	52	62	75	90	100	107	115	132	154	167	178	187	210	245	257							
		72	43	55	63	74	87	97	106	120	127	151	161	171	182	195	238	252							
		78	42	51	63	71	86	90	100	112	122	130	155	166	176	187	229	245	281	290					
		84	42	51	61	70	78	91	100	109	115	125	131	157	166	178	222	230	256	277					
	12N@ 6.67	60	40	49	60	68	77	87	92	102	111	118	132	136	160	169	197	221	239	261	293				
		66	50	65	73	90	103	115	130	161	172	180	195	207	220	254	290								
		72	47	59	72	86	101	107	125	133	165	174	183	196	210	243	273	276							
		78	46	60	69	80	94	108	114	129	136	167	176	189	197	220	263	265	301						
		84	47	56	70	79	92	99	111	121	138	140	170	175	193	207	250	265	301	301					
	14N@ 5.71	66	57	73	89	103	113	129	160	182	186	207	221	231	262	288									
		72	54	67	79	101	106	125	143	165	184	198	211	224	243	277									
		78	50	66	78	95	109	118	136	149	173	191	197	216	226	266	297								
		84	50	64	74	92	99	112	124	143	169	177	191	203	218	250	276								
		90	48	61	74	86	100	115	121	136	146	172	181	195	208	227	264	275							
16N@ 5.00	66	62	78	101	113	130	161	184	197	212	233	253	268	288	308										
	72	57	76	93	109	118	145	167	187	203	218	246	258	270	291										
	78	58	73	91	104	120	137	149	181	191	208	219	242	252	282										
	84	54	69	84	100	115	126	143	174	185	195	211	223	250	271	315									
	90	54	70	80	101	114	119	144	155	180	191	207	220	233	267	306									
96	55	68	81	94	110	121	133	155	164	186	201	211	226	264	298	302									



GLOSSARY

Accessories. Structural components related to the design, fabrication and erection of *joists* and *Joist Girders* including, but not limited to sloped *end bearings*, *extended ends*, *ceiling extensions*, *bridging* and bridging anchors, *headers* and bottom chord lateral bracing for *Joist Girders*.

ASD (Allowable Strength Design). Method of proportioning structural components such that the *allowable strength* equals or exceeds the *required strength* of the component under the action of the *ASD load combinations*.

ASD Load Combination. *Load combination* in the *applicable building code* intended for *allowable strength design* (allowable stress design).

Allowable Strength*. *Nominal strength* divided by the *safety factor*, R_D .

Applicable Building Code. Building code under which the structure is designed.

Available Strength*. *Design strength* or *allowable strength* as appropriate.

Bay. The distance between the main structural frames or walls of a building.

Bearing. The distance that the bearing shoe or seat of a *joist* or *Joist Girder* extends over its masonry, concrete or steel support.

Bearing Plate. The steel plate used for a *joist* or *Joist Girder* to bear on when it is supported by masonry or concrete supports. The plate is designed by the *Specifying Professional* to carry the *joist* reaction to the supporting structure.

Bottom Chord Extension (BCX). The two angle extended part of a *joist* bottom chord from the first bottom chord panel point towards the end of the joist.

Bridging. In general, a member connected to a joist to brace it from lateral movement. See also Diagonal Bridging and Horizontal Bridging

Buckling. *Limit state* of sudden change in the geometry of a structure or any of its elements under a critical loading condition.

Buckling Strength. *Nominal strength* for *buckling* or *instability limit states*.

Buyer. The entity that has agreed to purchase *material* from the manufacturer and has also agreed to the terms of sale.

Camber. An upward curvature of the chords of a *joist* or *Joist Girder* induced during shop fabrication. Note, this is in addition to the pitch of the top chord.

Ceiling Extension. A *bottom chord extension* except that only one angle of the *joist* bottom chord is extended from the first bottom chord panel point towards the end of the joist.

Chords. The top and bottom members of a *joist* or *Joist Girder*. When a chord is comprised of two angles there is usually a gap between the members.

Clear Span. The actual clear distance or opening between supports for a *joist*, that is the distance between walls or the distance between the edges of flanges of beams.