

SUGGESTED DESIGN GUIDES

ALLOWABLE UNIFORM LOAD CAPACITIES – HEADERS

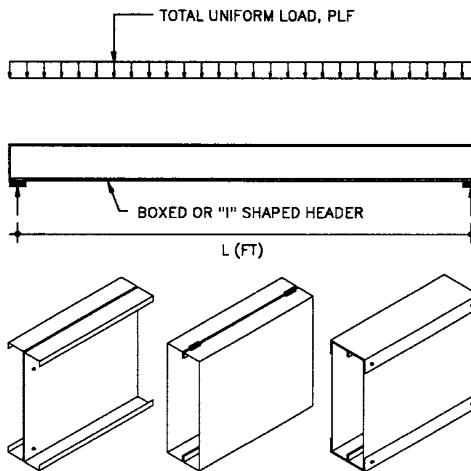
POUNDS PER LINEAR FOOT, PLF

USE:

The tables are used to select a simply supported boxed or "I" shaped header subjected to uniform load. Select a header which provides an allowable uniform load in excess of the applied load.

NOTES:

1. The values represent the allowable total load, in pounds per Linear foot (PLF), limited by the bending or shear capacity of the header. Additionally, deflection was limited to 1/360 of span length.



SECTION	4FT	5FT	6FT	7FT	8FT	9FT	10FT	11FT	12FT	13FT	14FT	15FT	16FT
(2)4SSJ18	730	467	324	229	154	108	79	59	45	36	29	23	19
(2)4SSJ16	1369	778	450	284	190	133	97	73	56	44	35	29	24
(2)4SS J14	1654	941	545	343	230	161	118	88	68	54	43	35	29
(2)6SSJ18	1275	816	567	416	319	252	204	153	118	93	74	61	50
(2)6SSJ16	2401	1537	1067	740	496	348	254	191	147	116	93	75	62
(2)6SSJ14	2915	1865	1295	898	602	423	308	232	178	140	112	91	75
(2)8SSJ18	985	788	657	563	475	375	304	251	211	180	149	121	100
(2)8SSJ16	1962	1569	1308	1121	896	698	509	382	295	232	185	151	124
(2)8SSJ14	3959	2793	1940	1425	1091	850	620	466	359	282	226	184	151
(2)8SSJ12	5669	3628	2519	1851	1417	1106	806	606	467	367	294	239	197

2. The use of these tables is limited to simply supported conditions. Applications involving cantilevers, concentrated loads, eccentricities, multiple spans, impact loading, etc. should be investigated separately.

3. The compression flange of the header shall be laterally braced at intervals not to exceed 2'-0" on center.

4. Web crippling should be investigated separately. Web reinforcement is suggested at all bearing and/or concentrated load locations unless deemed unnecessary by analysis. Shapes having multiple un-reinforced webs (sections which provide a high degree of restraint against rotation of the web) subjected to a combination of concentrated load or reaction and bending shall be designed to meet the requirements of AISI Section C3.4. Reference Page 29 for additional information. Avoid locating a web knockout within a distance equaling 1.5 x depth of the member (h) from the edge of bearing. Should a knockout be located in this area, web reinforcement is required.

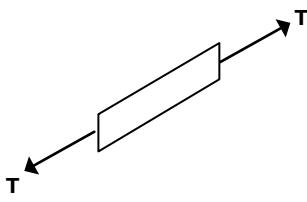
5. Contact Super Stud for allowable load capacities of sections not shown herein.

SECTION	8FT	9FT	10FT	11FT	12FT	13FT	14FT	15FT	16FT	17FT	18FT	19FT	20FT
(2)6SSJ18										42	35	30	26
(2)6SSJ16										52	44	37	32
(2)6SSJ14										63	53	45	39
(2)8SSJ18										83	70	60	51
(2)8SSJ16										104	87	74	64
(2)8SSJ14										126	106	90	77
(2)8SSJ12										164	138	118	101
(2)10SSJ16	779	692	623	567	483	402	322	261	215	180	151	129	110
(2)10SSJ14	1526	1206	977	807	624	491	393	319	263	219	185	157	135
(2)10SSJ12	2000	1580	1280	1058	818	643	515	419	345	288	242	206	177
(2)12SSJ16	646	574	517	470	431	398	369	345	316	280	239	203	174
(2)12SSJ14	1300	1142	832	625	482	379	303	247	203	169	143	121	104
(2)12SSJ12	2665	2106	1706	1410	1185	1009	821	668	550	459	386	329	282
(2)14SJW14	1109	986	887	807	739	682	634	591	555	522	466	416	357
(2)14SJW12	3255	2893	2490	2058	1729	1473	1270	1107	935	779	657	558	479

FLAT STRAP ALLOWABLE TENSION CAPACITIES

USE:

The table provides the allowable capacity of strap subjected to tensile forces.



Allowable Strap Tension, Pounds			
Strap Width	Thickness (Mils)	Gauge	Capacity (Pounds)
2"	33	20	1,370
3"	33	20	2,050
2"	43	18	1,780
3"	43	18	2,670
4"	43	18	3,570
2"	54	16	2,240
3"	54	16	3,360
4"	54	16	4,480
3"	68	14	6,410
4"	68	14	8,550
5"	68	14	10,690

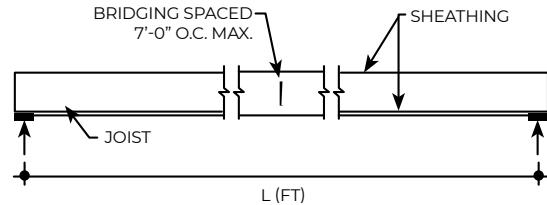
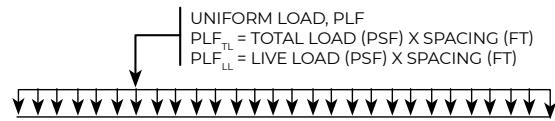
SUGGESTED DESIGN GUIDES

ALLOWABLE UNIFORM LOAD CAPACITIES – JOISTS

POUNDS PER LINEAR FOOT, PLF

USE:

The tables are used to select a simply supported joist or rafter subjected to uniform lateral loads. Select a joist, based on span and deflection limit, which provides an allowable uniform load in excess of the applied load.



NOTES:

1. **TL** values denote the **TOTAL LOAD** capacity of the section expressed in pounds per linear foot (PLF), which will not exceed stress limitations or generate deflections in excess of $L/240$.

LL values denote the **LIVE LOAD**, in pounds per linear foot (PLF), which will generate a deflection equaling $L/360$.

To determine LIVE LOAD deflection limits of $L/480$ and $L/240$, multiply the LL values 0.75 and 1.5 respectively. In either case, the TOTAL LOAD capacity of the joist shall not be exceeded.

2. To determine the equivalent pound per square foot (PSF) load carrying capacities, divide the pound per linear foot (PLF) values by the joist spacing expressed in feet.

$$\text{Pound Per Linear Foot (PLF)} = \frac{\text{Pound Per Square Foot (PSF)}}{\text{Joist Spacing (Feet On Center)}}$$

For joists spaced:
 12" O.C., divide values by 1.0
 16" O.C., divide values by 1.333
 24" O.C., divide values by 2.0

3. The use of these tables is limited to simply supported conditions installed to a maximum slope of $1/2"$ per foot. Conditions involving cantilevers, concentrated loads, eccentricities, multiple spans, impact loading, etc. should be investigated separately.

4. The compression flange of the section should be braced by means of the attachment of continuous diaphragm rated sheathing. Additionally, mechanical bridging shall be installed at intervals not to exceed 7' 0" on center.

5. Joist ends shall be restrained against rotation by means of a fixed attachment to each side of continuous track or alternative methods preventing end rotation shall be provided.

6. Deflections were calculated without regard to the composite contribution of collateral materials.

7. Web crippling per AISI Section C3.4 should be investigated separately. Web reinforcement is suggested at all bearing and/or concentrated load locations unless deemed unnecessary by analysis. Reference Pages 40 and 41 for allowable un-reinforced web capacities.

8. Contact Super Stud for allowable load capacities of sections not shown herein.



SUGGESTED DESIGN GUIDES
ALLOWABLE UNIFORM LOAD CAPACITIES – JOISTS
POUNDS PER LINEAR FOOT, PLF
TOTAL LOAD (TL), LIVE LOAD (LL)

AISI Designation	Legacy Designation	SPAN																																		
		6FT	7FT	8FT	9FT	10FT	11FT	12FT	13FT	14FT	15FT	16FT	17FT	18FT	19FT	20FT	21FT	22FT	23FT	24FT	25FT	26FT	27FT	28FT												
600S162-33	6SSJ20	TL 199	155	119	94	76	63	53	45	39	34	29	24	20	17																					
		LL 199	155	119	94	76	59	46	36	29	23	19	16	13	11																					
600S162-43	6SSJ18	TL 283	208	159	126	102	84	71	60	52	45	37	31	26	22	19	17																			
		LL 283	208	159	126	102	77	59	46	37	30	25	21	18	15	13	11																			
600S200-43	6SJW18	TL 318	234	179	141	114	95	80	68	58	51	43	36	30	26	22	19	17																		
		LL 318	234	179	141	114	88	68	53	43	35	29	24	20	17	15	13	11																		
600S250-43	6SSW18	TL 346	254	194	154	124	103	86	74	63	55	49	42	35	30	26	22	19	17																	
		LL 346	254	194	154	124	102	79	62	50	40	33	28	23	20	17	15	13	11																	
600S162-54	6SSJ16	TL 534	392	300	237	190	143	110	87	69	56	46	39	33	28	24	21	18	16																	
		LL 534	370	548	174	127	95	73	58	46	38	31	26	22	19	16	14	12	10																	
600S200-54	6SJW16	TL 605	444	340	269	218	167	129	101	81	66	54	45	38	32	28	24	21	18	16																
		LL 605	433	290	204	148	111	86	68	54	44	36	30	25	22	19	16	14	12	11																
600S250-54	6SSW16	TL 657	483	370	292	237	194	150	118	94	77	63	53	44	38	32	28	24	21	19	17															
		LL 657	483	337	237	172	130	100	79	63	51	42	35	30	25	22	19	16	14	12	11															
600S162-68	6SSJ14	TL 648	476	364	288	231	174	134	105	84	68	56	47	40	34	29	25	22	19	17																
		LL 648	449	301	211	154	116	89	70	56	46	38	31	26	22	19	17	14	13	11																
600S200-68	6SJW14	TL 763	561	429	339	272	204	157	124	99	81	66	55	47	40	34	29	26	22	20	17	15	13	12	10											
		LL 763	529	354	249	181	136	105	83	66	54	44	37	31	26	23	20	17	15	13	12	10														
600S250-68	6SSW14	TL 884	649	497	393	318	244	188	148	118	96	79	66	56	47	41	35	30	27	23	21	18	16													
		LL 884	630	422	297	216	162	125	98	79	64	53	44	37	32	27	23	20	18	16	14	12	11													
600S200-97	6SJW12	TL 999	738	565	446	358	269	207	163	130	106	87	73	61	52	45	39	34	29	26	23	20	18	16												
		LL 999	696	466	327	239	179	138	109	87	71	58	49	41	35	30	26	22	20	17	15	14	12	11												
600S250-97	6SSW12	TL 999	901	690	545	437	328	253	199	159	129	107	89	75	64	55	47	41	36	32	28	25	22	20												
		LL 999	849	569	400	291	219	169	133	106	86	71	59	50	42	36	31	27	24	21	19	17	15	13												
725S162-43	7-1/4SSJ18	TL 363	268	206	162	132	109	91	78	67	58	51	46	41	35	30	26	23	20	17	15															
		LL 363	268	206	162	132	109	91	73	59	48	39	33	28	23	20	17	15	13	12	10															
725S200-43	7-1/4SJW18	TL 517	380	291	230	186	154	129	110	95	83	73	64	57	50	43	37	32	28	25	22	19	17	16												
		LL 517	380	291	230	186	154	129	103	83	67	55	46	39	33	28	25	21	19	16	15	13	12	10												
725S162-54	7-1/4SSJ16	TL 689	506	388	306	248	205	172	137	109	89	73	61	51	44	38	32	28	25	22	19	17	15													
		LL 689	506	388	275	200	150	116	91	73	59	49	41	34	29	25	22	19	16	14	13	11	10													
725S200-54	7-1/4SJW16	TL 724	571	437	345	280	231	194	159	127	103	85	71	60	51	44	38	33	29	25	22	20	18	16												
		LL 724	571	437	319	232	175	134	106	85	69	57	47	40	34	29	25	22	19	17	15	13	12	11												
725S162-68	7-1/4SSJ14	TL 838	616	471	372	302	249	210	166	133	108	89	74	63	53	46	39	34	30	26	23	21	19	17												
		LL 838	616	471	334	244	183	141	111	89	72	59	50	42	36	30	26	23	20	18	16	14	12	11												
725S200-68	7-1/4SJW14	TL 981	721	552	436	353	292	245	194	155	126	104	87	732	62	53	46	40	35	31	27	24	22	19												
		LL 981	721	552	390	284	214	165	129	104	84	69	58	49	41	36	31	27	23	21	18	16	14	13												
725S162-97	7-1/4SSJ12	TL 999	797	610	482	390	323	271	216	173	140	116	96	81	69	59	51	44	39	34	30	27	24	22												
		LL 999	797	610	433	316	237	183	144	115	94	77	64	54	46	39	34	30	26	23	20	18	16	14												
725S200-97	7-1/4SJW12	TL 999	951	728	575	466	385	323	256	205	167	138	115	97	82	70	61	53	46	41	36	32	29	26												
		LL 999	951	728	515	376	282	217	171	137	111	92	76	64	55	47	41	35	31	27	24	21	19	17												
800S162-43	8SSJ18	TL 328	281	237	188	152	126	106	90	78	68	59	53	47	42	38	33	29	25	22	20	17	16	15	12											
		LL 328	281	237	188	152	126	106	90	74	61	50	42	35	30	26	22	19	17	15	13	12	10													
800S200-43	8SJW18	TL 328	281	246	207	168	139	117	99	86	75	66	58	52	47	42	38	33	29	25	22	20	18	16												
		LL 328	281	246	207	168	139	117	99	85	69	57	47	40	34	29	25	22	19	17	15	13	12	11												
800S250-43	8SSW18	TL 328	281	246	217	176	145	122	104	90	78	69	61	54	46	39	33	29	25	22	19	17	15	14	12											
		LL 328	281	246	217	176	145	122	104	90	78	65	54	46	39	33	29	25	22	19	17	15	14	12												
800S162-54	8SSJ16	TL 654	560	448	354	287	237	199	170	139	113	93	78	65	56	48	41	36	31	28	24	22	19	17	15											
		LL 654	560	448	349	254	191	147	116	93	75																									

SUGGESTED DESIGN GUIDES
ALLOWABLE UNIFORM LOAD CAPACITIES - JOISTS
POUNDS PER LINEAR FOOT, PLF
TOTAL LOAD (TL), LIVE LOAD (LL)

AISI Designation	Legacy Designation	SPAN																						
		14FT	15FT	16FT	17FT	18FT	19FT	20FT	21FT	22FT	23FT	24FT	25FT	26FT	27FT	28FT	29FT	30FT	31FT	32FT	33FT	34FT	35FT	36FT
925S162-43	9-1/4SSJ18	TL 97	76	66	59	52	47	42	39	35	32	29	27	25	22	20	18	16						
		LL 87	76	66	59	50	43	36	31	27	24	21	19	17	15	13	12	11						
925S200-43	9-1/4SJW18	TL 96	84	74	65	58	52	47	43	39	36	33	30	28	25	22	20	18	17	15				
		LL 96	84	74	65	56	48	41	36	31	27	24	21	19	17	15	13	12	11	10				
925S162-54	9-1/4SSJ16	TL 167	146	128	111	94	80	68	59	51	45	39	35	31	28	25	22	20	18	17	15			
		LL 133	108	89	74	62	53	45	39	34	30	26	23	21	18	17	15	13	12	11	10			
925S200-54	9-1/4SJW16	TL 136	162	143	126	107	91	78	68	59	51	45	40	36	32	29	26	23	21	19	14	16		
		LL 152	124	102	85	72	61	52	45	39	34	30	27	24	21	19	17	15	14	13	12	11		
925S162-68	9-1/4SSJ14	TL 221	193	162	135	114	97	83	72	62	55	48	43	38	34	30	27	25	22	20	19	17	16	
		LL 162	131	108	90	76	65	55	48	42	36	32	28	25	23	20	18	16	15	14	12	11	10	
925S200-68	9-1/4SJW14	TL 256	223	187	156	132	112	96	83	72	63	56	49	44	39	35	31	28	26	23	21	20	18	16
		LL 187	152	125	104	88	75	64	55	48	42	37	33	29	26	23	21	19	17	16	14	13	12	11
925S162-97	9-1/4SSJ12	TL 289	252	212	177	149	127	109	94	82	72	63	56	50	44	40	36	32	29	27	24	22	20	19
		LL 211	172	142	118	99	85	73	63	54	48	42	37	33	29	26	24	21	19	18	16	15	14	12
925S200-97	9-1/4SJW12	TL 339	296	249	207	175	149	127	110	96	84	74	65	58	52	46	42	38	34	31	28	26	22	
		LL 248	201	166	138	117	99	85	73	64	56	49	43	39	35	31	28	25	23	21	19	17	16	15
1000S162-54	10SSJ16	TL 177	155	136	120	107	96	83	71	62	54	48	42	38	34	30	27	25	22	20	18	17	15	
		LL 161	131	108	90	76	64	55	48	41	36	32	28	25	22	20	18	16	15	13	12	11	10	
1000S200-54	10SJW16	TL 199	173	152	135	120	108	95	82	71	62	55	48	43	38	34	31	28	25	23	21	19	18	16
		LL 184	149	123	103	87	74	63	54	47	41	36	32	29	26	23	21	19	17	15	14	13	12	11
1000S250-54	10SSW16	TL 211	184	162	143	128	115	104	93	81	71	62	55	49	44	39	35	32	29	26	24	22	20	18
		LL 209	170	140	117	98	84	72	62	54	47	42	37	33	29	26	24	21	19	18	16	15	13	12
1000S162-68	10SSJ14	TL 249	217	191	165	139	118	101	87	76	66	58	52	46	41	37	33	30	27	25	22	21	19	17
		LL 196	160	132	110	92	79	67	58	51	44	39	34	31	27	25	22	20	18	16	15	14	13	12
1000S200-68	10SJW14	TL 287	250	219	189	159	135	116	100	87	76	67	59	53	47	42	38	34	31	28	26	24	22	20
		LL 226	188	151	126	106	90	77	67	58	51	45	40	35	31	28	25	23	21	19	17	16	14	13
1000S250-68	10SSW14	TL 327	285	250	221	186	158	136	117	102	89	78	69	62	55	49	44	40	36	33	30	28	25	23
		LL 264	214	177	147	124	105	90	78	68	59	52	46	41	37	33	30	27	24	22	20	18	17	16
1000S162-97	10SSJ12	TL 326	284	250	216	182	155	132	114	100	87	77	68	60	54	48	43	39	36	32	29	27	25	23
		LL 257	209	172	144	121	103	88	76	66	58	51	45	40	36	32	29	26	24	22	20	18	16	15
1000S200-97	10SJW12	TL 381	332	292	251	212	180	154	133	116	102	89	79	70	63	56	51	46	41	38	34	31	29	26
		LL 300	244	201	163	141	120	103	89	77	68	60	53	47	42	38	34	30	28	25	23	21	19	18
1000S250-97	10SSW12	TL 454	395	347	299	252	214	184	159	138	121	106	94	84	75	67	60	54	49	45	41	37	34	32
		LL 357	290	239	199	168	143	122	106	92	81	71	63	56	50	45	40	36	33	30	27	25	23	21
1150S162-54	11-1/2SSJ16	TL 193	173	152	135	120	108	98	88	81	74	68	60	53	48	43	38	35	32	29	26	24	22	20
		LL 193	173	152	127	107	91	78	68	59	51	45	40	36	32	29	26	23	21	19	17	16	15	13
1150S250-54	11-1/2SSW16	TL 193	180	169	159	145	130	118	107	97	89	82	75	69	61	55	49	45	40	37	34	31	28	26
		LL 193	180	169	159	138	117	100	87	75	66	58	51	46	41	37	33	30	27	25	22	20	19	17
1150S162-68	11-1/2SSJ14	TL 284	247	217	193	172	154	139	124	108	94	83	74	65	58	52	47	43	39	35	32	29	27	25
		LL 279	227	187	156	131	112	96	83	72	63	55	49	44	39	35	31	28	26	23	21	19	18	16
1150S250-68	11-1/2SSW14	TL 372	324	285	252	225	202	182	164	143	125	110	97	86	77	69	62	56	51	46	42	39	35	33
		LL 369	300	247	206	174	148	127	109	95	83	73	65	58	51	46	42	38	34	31	28	26	24	22
1150S162-97	11-1/2SSJ12	TL 407	354	311	276	246	221	189	164	142	124	110	97	86	77	66	62	56	51	46	42	39	35	32
		LL 368	299	247	206	173	147	126	109	95	83	73	65	57	51	46	41	37	34	31	28	26	24	22
1150S250-97	11-1/2SSW12	TL 555	483	425	376	336	301	258	223	194	170	149	132	117	105	94	85	76	69	63	57	52	48	44
		LL 501	407	336	280	236	201	172	149	129	113	99	88	78	70	63	56	51	46	42	38	35	32	29
1200S162-54	12SSJ16	TL 185	172	158	140	125	112	101	92	84	76	70	65	59	53	48	43	39	35	32	29	26	24	22
		LL 185	172	158	140	120	102	87	75	65	57	50	45	40	35	32	29	26	23	21	19	18	16	15
1200S200-54	12SJW16	TL 185	172	162	152	141	127	114	104	95	86	79	73	67	60	54	49	44	40	36	33	30	28	25
		LL 185	172	162	152	144	136	122	111	101	93	85	78	72	67	61	55	49	45	41	37	34	31	29
1200S250-54	12SSW16	TL 293	255	224	198	177	159	143	130	118	105	93	82	73	65	58	52	47	43	39	36	33	30	27
		LL 293	253	208	174</																			

WEB CRIPLING CAPACITIES

UNSTIFFENED WEB(S) SUBJECTED TO LOCAL FORCES

KIPS (1,000 LBS)

USE:

The tables are used to verify the allowable capacity of an unreinforced web subjected to local forces.

NOTES:

1. Values have been omitted where the height to thickness ratio of the web, h/t , exceeds 200.
2. Values shown below represent the allowable concentrated load or reaction for one solid unreinforced web. Values shown on the following page represent the allowable concentrated load or reaction for "J" shaped sections connected back to back or similar sections which provide a high degree of restraint against rotation of the web.
3. Unreinforced flat webs of sections subjected to a combination of concentrated load or reaction and bending shall be designed to meet the following requirements:

- a. For shapes having single unreinforced webs:

$$1.2(P/\text{Pa}) + (M/\text{Ma}) < 1.5$$

- b. For shapes having multiple unreinforced webs (i.e. "I" sections or similar sections which provide a high degree of restraint against rotation of the web): $1.1(P/\text{Pa}) + (M/\text{Ma}) < 1.5$ where:

P = Concentrated load or reaction

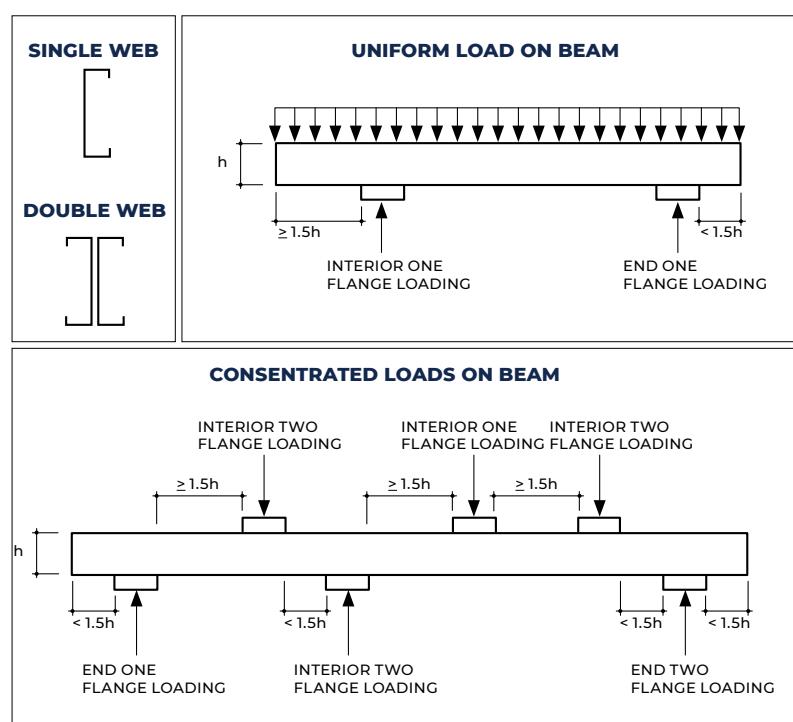
Pa = Allowable concentrated load or reaction

M = Applied bending moment at, or immediately adjacent to, the point of application of the concentrated load or reaction

Ma = Allowable bending moment if bending alone exists

h = flat width of web

4. Avoid locating a web knockout within a distance equaling $1.5 \times$ depth of the member (h) from the edge of bearing. If a knockout is located in this area, web reinforcement is required.


DOUBLE WEB

SECTION	6" X 33 MIL				6" X 43 MIL				6" X 54 MIL				6" X 68 MIL				6" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.867	0.982	1.075	1.165	1.357	1.523	1.658	1.775	2.996	3.339	3.618	3.859	4.434	4.907	5.291	5.623	8.226	9.007	9.642	10.190
INTERIOR ONE FLANGE	1.294	1.515	1.695	1.851	2.074	2.410	2.682	2.918	3.394	3.916	4.340	4.706	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590
END TWO FLANGE	0.445	0.504	0.551	0.593	0.797	0.894	0.974	1.042	1.315	1.465	1.588	1.694	2.198	2.433	2.623	2.788	4.928	5.395	5.776	6.104
INTERIOR TWO FLANGE	1.086	1.272	1.423	1.554	1.874	2.177	2.424	2.637	2.973	3.430	3.801	4.122	4.745	5.434	5.995	6.479	9.613	10.885	11.920	12.814

SECTION	8" X 43 MIL				8" X 54 MIL				8" X 68 MIL				8" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	1.391	1.561	1.700	1.819	3.121	3.478	3.769	4.020	4.584	5.073	5.470	5.813	8.428	9.227	9.877	10.439
INTERIOR ONE FLANGE	2.074	2.410	2.682	2.918	3.394	3.916	4.340	4.706	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590
END TWO FLANGE	0.748	0.839	0.914	0.978	1.253	1.396	1.513	1.613	2.118	2.344	2.527	2.686	4.806	5.262	5.632	5.953
INTERIOR TWO FLANGE	1.736	2.017	2.246	2.443	2.806	3.237	3.588	3.891	4.541	5.201	5.737	6.200	9.509	10.768	11.791	12.676

SECTION	10" X 54 MIL				10" X 68 MIL				10" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	3.169	3.532	3.827	4.082	4.734	5.239	5.649	6.003	8.629	9.448	10.113	10.689
INTERIOR ONE FLANGE	3.394	3.916	4.340	4.706	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590
END TWO FLANGE	1.190	1.327	1.438	1.533	2.038	2.255	2.432	2.584	4.684	5.128	5.489	5.802
INTERIOR TWO FLANGE	2.640	3.045	3.375	3.660	4.337	4.967	5.479	5.922	9.225	10.446	11.439	12.297

SECTION	12" X 68 MIL				12" X 97 MIL				14" X 68 MIL				14" X 97 MIL				16" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	4.813	5.326	5.743	6.103	8.830	9.668	10.349	10.938	4.813	5.326	5.743	6.103	9.031	9.888	10.585	11.187	9.209	10.083	10.793	11.407
INTERIOR ONE FLANGE	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590	10.194	11.544	12.641	13.590
END TWO FLANGE	1.958	2.166	2.336	2.483	4.562	4.994	5.346	5.650	1.877	2.078	2.240	2.381	4.439	4.861	5.203	5.499	4.317	4.727	5.060	5.348
INTERIOR TWO FLANGE	4.133	4.733	5.221	5.643	8.941	10.124	11.086	11.918	3.929	4.500	4.963	5.365	8.656	9.802	10.734	11.539	8.372	9.480	10.381	11.160



WEB CRIPPLING CAPACITIES
UNSTIFFENED WEB(S) SUBJECTED TO LOCAL FORCES
KIPS (1,000 LBS)

SINGLE WEB

SECTION	3-5/8"X 33 MIL				3-5/8"X 43 MIL				3-5/8"X 54 MIL				3-5/8"X 68 MIL				3-5/8"X 97 MIL			
	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.221	0.265	0.310	0.354	0.386	0.451	0.515	0.579	0.752	0.857	0.962	1.067	1.173	1.309	1.445	1.581	2.332	2.531	2.731	2.931
INTERIOR ONE FLANGE	0.373	0.442	0.533	0.624	0.634	0.714	0.825	0.951	1.323	1.461	1.596	1.813	2.072	2.250	2.427	2.609	4.145	4.403	4.662	4.921
END TWO FLANGE	0.153	0.184	0.214	0.245	0.272	0.318	0.363	0.408	0.536	0.611	0.686	0.761	0.843	0.941	1.038	1.136	1.691	1.836	1.981	2.126
INTERIOR TWO FLANGE	0.356	0.369	0.382	0.394	0.669	0.688	0.706	0.724	1.490	1.523	1.556	1.589	2.457	2.501	2.545	2.588	5.215	5.280	5.345	5.411

SECTION	4"X 33 MIL				4"X 43 MIL				4"X 54 MIL				4"X 68 MIL				4"X 97 MIL			
	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.215	0.259	0.302	0.345	0.380	0.443	0.506	0.569	0.742	0.845	0.949	1.052	1.161	1.295	1.429	1.564	2.315	2.513	2.712	2.910
INTERIOR ONE FLANGE	0.367	0.435	0.524	0.614	0.626	0.705	0.815	0.939	1.310	1.447	1.581	1.795	2.056	2.232	2.408	2.589	4.123	4.380	4.637	4.895
END TWO FLANGE	0.148	0.177	0.207	0.237	0.266	0.310	0.354	0.399	0.526	0.600	0.673	0.747	0.831	0.928	1.024	1.120	1.675	1.819	1.963	2.106
INTERIOR TWO FLANGE	0.340	0.352	0.365	0.377	0.648	0.666	0.684	0.702	1.455	1.487	1.519	1.552	2.414	2.457	2.499	2.542	5.153	5.217	5.282	5.347

SECTION	6" X 33 MIL				6" X 43 MIL				6" X 54 MIL				6" X 68 MIL				6" X 97 MIL			
	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.187	0.224	0.262	0.299	0.343	0.400	0.457	0.514	0.687	0.783	0.879	0.974	1.094	1.221	1.348	1.475	2.225	2.416	2.607	2.797
INTERIOR ONE FLANGE	0.332	0.394	0.475	0.556	0.583	0.657	0.759	0.874	1.240	1.370	1.496	1.700	1.971	2.140	2.308	2.481	4.006	4.256	4.506	4.756
END TWO FLANGE	0.121	0.145	0.169	0.194	0.231	0.270	0.308	0.347	0.475	0.541	0.607	0.674	0.769	0.858	0.947	1.037	1.591	1.728	1.864	2.000
INTERIOR TWO FLANGE	0.255	0.265	0.274	0.283	0.537	0.552	0.566	0.581	1.269	1.297	1.325	1.353	2.181	2.220	2.258	2.297	4.823	4.884	4.944	5.005

SECTION	8" X 43 MIL				8" X 54 MIL				8" X 68 MIL				8" X 97 MIL			
	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.306	0.357	0.408	0.459	0.632	0.720	0.808	0.896	1.028	1.147	1.266	1.385	2.136	2.319	2.502	2.685
INTERIOR ONE FLANGE	0.540	0.608	0.703	0.809	1.170	1.292	1.412	1.604	1.886	2.047	2.209	2.374	3.889	4.132	4.374	4.617
END TWO FLANGE	0.197	0.230	0.263	0.295	0.423	0.482	0.541	0.600	0.707	0.789	0.871	0.953	1.507	1.636	1.765	1.895
INTERIOR TWO FLANGE	0.425	0.437	0.449	0.461	1.082	1.107	1.131	1.155	1.948	1.983	2.017	2.052	4.494	4.550	4.606	4.663

SECTION	9-1/4" X 54 MIL				9-1/4" X 68 MIL				9-1/4" X 97 MIL			
	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.597	0.681	0.764	0.848	0.987	1.101	1.215	1.330	2.080	2.258	2.436	2.614
INTERIOR ONE FLANGE	1.127	1.244	1.359	1.544	1.832	1.989	2.146	2.307	3.816	4.054	4.292	4.530
END TWO FLANGE	0.391	0.445	0.500	0.554	0.668	0.745	0.823	0.900	1.455	1.579	1.704	1.828
INTERIOR TWO FLANGE	0.966	0.988	1.009	1.030	1.802	1.834	1.866	1.898	4.288	4.341	4.395	4.449

SECTION	10" X 54 MIL				10" X 68 MIL				10" X 97 MIL			
	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.577	0.657	0.738	0.818	0.962	1.073	1.185	1.296	2.046	2.221	2.397	2.572
INTERIOR ONE FLANGE	1.100	1.215	1.327	1.508	1.801	1.955	2.109	2.267	3.772	4.007	4.243	4.478
END TWO FLANGE	0.371	0.423	0.475	0.527	0.645	0.719	0.794	0.869	1.423	1.545	1.667	1.789
INTERIOR TWO FLANGE	0.896	0.916	0.936	0.956	1.715	1.745	1.776	1.806	4.164	4.216	4.269	4.321

SECTION	11-1/4" X 54 MIL				11-1/4" X 68 MIL				11-1/4" X 97 MIL			
	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.536	0.610	0.685	0.760	0.912	1.018	1.123	1.229	1.979	2.148	2.318	2.488
INTERIOR ONE FLANGE	1.048	1.157	1.264	1.436	1.737	1.885	2.034	2.186	3.684	3.914	4.144	4.374
END TWO FLANGE	0.333	0.379	0.426	0.472	0.598	0.667	0.737	0.806	1.360	1.476	1.593	1.709
INTERIOR TWO FLANGE	0.757	0.773	0.790	0.807	1.540	1.568	1.595	1.622	3.917	3.966	4.015	4.064

SECTION	12" X 68 MIL				12" X 97 MIL				14" X 68 MIL				14" X 97 MIL				16" X 97 MIL			
	1.5	2.5	3.5	4.5																