



1/9 : NORMAL OCCUPANCY

SECTION PROPERTIES (PER FOOT OF WIDTH)

IMPERIAL	Gauge	Coated Steel Thickness (G90) (in.)	Coated Weight (psf)	Sec. Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
				Midspan	Support		P _{e1} End (lb)	P _{e2} End (lb)	P _{i1} Interior (lb)	P _{i2} Interior (lb)
				(in ³)	(in ³)					
28 (80 ksi)	0.0175	0.76	0.0184	0.0155	0.0122	45.5	11.4	88.5	15.0	
26 (80 ksi)	0.0205	0.89	0.0228	0.0187	0.0144	66.1	16.5	129	21.9	
26 (33 ksi)	0.0205	0.89	0.0229	0.0196	0.0144	36.7	9.17	71.6	12.2	
24 (33 ksi)	0.0205	1.10	0.0287	0.0255	0.0182	60.7	15.2	119	20.2	

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

SPAN LENGTH (in.)		1-SPAN				2-SPAN				3-SPAN			
		Gauge				Gauge				Gauge			
		28 80 ksi	26 80 ksi	26 33 ksi	24 33 ksi	28 80 ksi	26 80 ksi	26 33 ksi	24 33 ksi	28 80 ksi	26 80 ksi	26 33 ksi	24 33 ksi
12	S	438	541	302	379	368	446	259	336	460	557	324	420
	D	1062	1260	1260	1589	2550	3025	3025	3814	2008	2382	2382	3004
16	S	246	305	170	213	207	251	146	189	258	313	182	237
	D	448	532	532	670	1076	1276	1276	1609	847	1005	1005	1267
20	S	158	195	109	136	132	160	93	121	165	201	117	151
	D	229	272	272	343	551	653	653	824	434	515	515	649
24	S	110	135	75	95	92	111	65	84	115	139	81	105
	D	133	158	158	199	319	378	378	477	251	298	298	375
30	S	70	87	48	61	59	71	41	54	74	89	52	67
	D	68	81	81	102	163	194	194	244	129	152	152	192
36	S	49	60	34	42	41	50	29	37	51	62	36	47
	D	39	47	47	59	94	112	112	141	74	88	88	111
42	S	36	44	25	31	30	36	21	27	38	45	26	34
	D	25	29	29	37	59	71	71	89	47	56	56	70
48	S	27	34	19	24	23	28	16	21	29	35	20	26
	D	17	20	20	25	40	47	47	60	31	37	37	47
54	S	22	27	15	19	18	22	13	17	23	28	16	21
	D	12	14	14	17	28	33	33	42	22	26	26	33
60	S	18	22	12	15	15	18	10	13	18	22	13	17
	D	8	10	10	13	20	24	24	31	16	19	19	24
72	S	12	15	8	11	10	12	7	9	13	15	9	12
	D	5	6	6	7	12	14	14	18	9	11	11	14

Notes:

- 1 Based on ASTM A 653 structural grade steel.
 - 2 Values in row "S" are based on strength.
 - 3 Values in row "D" are based on deflection of 1/180th span.
 - 4 Web crippling not included in strength calculations. See Example.
- Limit States Design principles were used in accordance with CSA Standard S136-07