

SECTION PROPERTIES (Per Foot of Width)

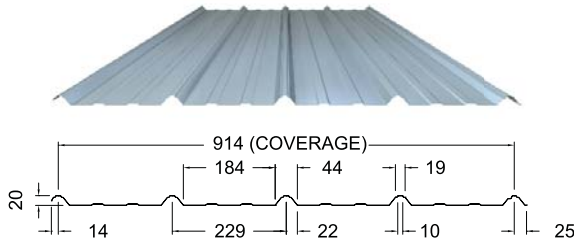
IMPERIAL

THICKNESS		Yield Strength (ksi)	Coated Steel Thickness (AZ50) (in)	Coated Mass (psf)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
Gauge	Base (in)				Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
29	0.0135	80	0.0151	0.699	0.0137	0.0109	0.0089	46.4	11.6	91	15.4
28	0.0150	50	0.0166	0.769	0.0155	0.0124	0.0098	36.5	9.1	71	12.1
26	0.0180	50	0.0196	0.907	0.0184	0.0152	0.0116	54.1	13.5	105	17.9
24	0.0240	33	0.0256	1.185	0.0240	0.0215	0.0151	66	16.5	128	21.7

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)

SPAN LENGTH (in)		1 - SPAN				2- SPAN				3 - SPAN			
		BASE STEEL THICKNESS (in)				BASE STEEL THICKNESS (in)				BASE STEEL THICKNESS (in)			
		0.0135	0.0150	0.0180	0.0240	0.0135	0.0150	0.0180	0.0240	0.0135	0.0150	0.0180	0.0240
16	S	183	174	207	178	146	140	171	159	182	174	213	199
	D	326	360	427	557	783	865	1026	1337	616	681	808	1053
20	S	117	111	132	114	93	89	109	102	117	112	137	128
	D	167	184	219	285	401	443	525	685	316	349	414	539
24	S	81	77	92	79	65	62	76	71	81	78	95	89
	D	97	107	127	165	232	256	304	396	183	202	239	312
30	S	52	50	59	51	41	40	49	45	52	50	61	57
	D	49	55	65	85	119	131	156	203	93	103	123	160
36	S	36	34	41	35	29	28	34	31	36	34	42	39
	D	29	32	38	49	69	76	90	117	54	60	71	92
42	S	27	25	30	26	21	20	25	23	26	25	31	29
	D	18	20	24	31	43	48	57	74	34	38	45	58
48	S	20	19	23	20	16	16	19	18	20	19	24	22
	D	12	13	16	21	29	32	38	50	23	25	30	39
54	S	16	15	18	16	13	12	15	14	16	15	19	17
	D	8	9	11	14	20	22	27	35	16	18	21	27
60	S	13	12	15	13	10	10	12	11	13	12	15	14
	D	6	7	8	11	15	16	19	25	12	13	15	20
66	S	11	10	12	10	9	8	10	9	11	10	13	12
	D	5	5	6	8	11	12	15	19	9	10	12	15
72	S	9	9	10	9	7	7	8	8	9	9	11	10
	D	4	4	5	6	9	9	11	15	7	7	9	12

1. Based on ASTM A 792M Structural 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. Limit States Design principles were used in accordance with CSA Standard S136-01 Load table prepared by Dr. R.M.Schuster P.Eng University of Waterloo, Ontario, Canada.



SECTION PROPERTIES (Per Metre of Width)

METRIC

THICKNESS		Yield Strength (MPa)	Coated Steel Thickness (AZM150) (mm)	Coated Mass (kg/m ²)	Section Modulus		Deflection Moment of Inertia (10 ⁶ mm ⁴)	Specified Web Crippling Data			
Gauge	Base (mm)				Midspan (10 ³ mm ³)	Support (10 ³ mm ³)		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi2 Interior (kN)
29	0.343	550	0.384	3.413	0.74	0.59	0.0121	0.503	0.126	0.985	0.167
28	0.381	345	0.422	3.755	0.83	0.67	0.0134	0.533	0.133	1.040	0.177
26	0.457	345	0.498	4.428	0.99	0.82	0.0159	0.789	0.197	1.535	0.261
24	0.610	230	0.650	5.786	1.29	1.15	0.0207	0.974	0.243	1.882	0.320

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

SPAN LENGTH (m)		1 - SPAN				2- SPAN				3 - SPAN			
		BASE STEEL THICKNESS (mm)				BASE STEEL THICKNESS (mm)				BASE STEEL THICKNESS (mm)			
		0.343	0.381	0.457	0.610	0.343	0.381	0.457	0.610	0.343	0.381	0.457	0.610
0.4	S	9.05	8.61	10.23	8.91	7.20	6.90	8.45	7.96	9.00	8.63	10.56	9.95
	D	16.37	18.09	21.47	27.98	39.30	43.42	51.52	67.15	30.95	34.19	40.57	52.88
0.5	S	5.79	5.51	6.55	5.70	4.61	4.42	5.41	5.09	5.76	5.52	6.76	6.37
	D	8.38	9.26	10.99	14.32	20.12	22.23	26.38	34.38	15.85	17.51	20.77	27.07
0.6	S	4.02	3.83	4.55	3.96	3.20	3.07	3.75	3.54	4.00	3.84	4.69	4.42
	D	4.85	5.36	6.36	8.29	11.64	12.87	15.26	19.90	9.17	10.13	12.02	15.67
0.8	S	2.26	2.15	2.56	2.23	1.80	1.73	2.11	1.99	2.25	2.16	2.64	2.49
	D	2.05	2.26	2.68	3.50	4.91	5.43	6.44	8.39	3.87	4.27	5.07	6.61
1.0	S	1.45	1.38	1.64	1.43	1.15	1.10	1.35	1.27	1.44	1.38	1.69	1.59
	D	1.05	1.16	1.37	1.79	2.52	2.78	3.30	4.30	1.98	2.19	2.60	3.38
1.2	S	1.01	0.96	1.14	0.99	0.80	0.77	0.94	0.88	1.00	0.96	1.17	1.11
	D	0.61	0.67	0.80	1.04	1.46	1.61	1.91	2.49	1.15	1.27	1.50	1.96
1.4	S	0.74	0.70	0.84	0.73	0.59	0.56	0.69	0.65	0.73	0.70	0.86	0.81
	D	0.38	0.42	0.50	0.65	0.92	1.01	1.20	1.57	0.72	0.80	0.95	1.23
1.5	S	0.64	0.61	0.73	0.63	0.51	0.49	0.60	0.57	0.64	0.61	0.75	0.71
	D	0.31	0.34	0.41	0.53	0.75	0.82	0.98	1.27	0.59	0.65	0.77	1.00
1.6	S	0.57	0.54	0.64	0.56	0.45	0.43	0.53	0.50	0.56	0.54	0.66	0.62
	D	0.26	0.28	0.34	0.44	0.61	0.68	0.80	1.05	0.48	0.53	0.63	0.83
1.8	S	0.45	0.43	0.51	0.44	0.36	0.34	0.42	0.39	0.44	0.43	0.52	0.49
	D	0.18	0.20	0.24	0.31	0.43	0.48	0.57	0.74	0.34	0.38	0.45	0.58
2.0	S	0.36	0.34	0.41	0.36	0.29	0.28	0.34	0.32	0.36	0.35	0.42	0.40
	D	0.13	0.14	0.17	0.22	0.31	0.35	0.41	0.54	0.25	0.27	0.32	0.42

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