

SECTION PROPERTIES (Per Foot of Width)

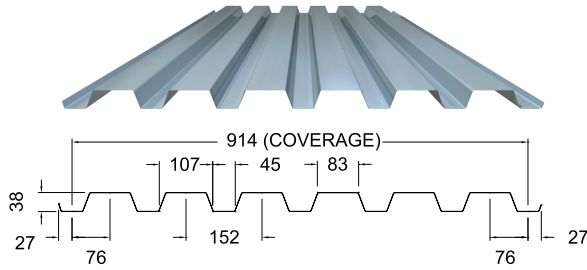
IMPERIAL

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)
26	0.0180	50	0.0196	1.095	0.089	0.079	0.100	86.8	21.7	147	25.0
24	0.0240	50	0.0256	1.430	0.129	0.118	0.137	163.7	40.9	283	48.2
22	0.0300	50	0.0316	1.765	0.172	0.161	0.147	266.1	66.5	466	79.3
20	0.0360	50	0.0376	2.100	0.217	0.210	0.203	394.4	98.6	697	118.5

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)

SPAN LENGTH (ft)		1 - SPAN				2 - SPAN				3 - SPAN			
		BASE STEEL THICKNESS (in)				BASE STEEL THICKNESS (in)				BASE STEEL THICKNESS (in)			
		0.0180	0.0240	0.0300	0.0360	0.0180	0.0240	0.0300	0.0360	0.0180	0.0240	0.0300	0.0360
3.0	S	197	286	382	483	176	262	359	466	220	327	448	582
	D	243	333	415	493	583	799	997	1183	459	629	785	931
3.5	S	145	210	281	355	129	192	264	342	161	240	329	428
	D	153	210	262	310	367	503	628	745	289	396	494	587
4.0	S	111	161	215	272	99	147	202	262	124	184	252	327
	D	102	140	175	208	246	337	421	499	194	265	331	393
4.5	S	88	127	170	215	78	116	159	207	98	145	199	259
	D	72	99	123	146	173	237	295	350	136	186	233	276
5.0	S	71	103	138	174	63	94	129	168	79	118	161	210
	D	52	72	90	106	126	173	215	255	99	136	170	201
5.5	S	59	85	114	144	52	78	107	139	65	97	133	173
	D	39	54	67	80	95	130	162	192	74	102	127	151
6.0	S	49	72	96	121	44	65	90	116	55	82	112	146
	D	30	42	52	62	73	100	125	148	57	79	98	116
6.5	S	42	61	81	103	37	56	76	99	47	70	97	124
	D	24	33	41	48	57	79	98	116	45	62	77	92
7.0	S	36	53	70	89	32	48	66	86	40	60	82	107
	D	19	26	33	39	46	63	78	93	36	50	62	73
7.5	S	32	46	61	77	28	42	57	75	35	52	72	93
	D	16	21	27	32	37	51	64	76	29	40	50	60
8.0	S	28	40	54	68	25	37	50	65	31	46	63	82
	D	13	18	22	26	31	42	53	62	24	33	41	49
8.5	S	25	36	48	60	22	33	45	58	27	41	56	73
	D	11	15	18	22	26	35	44	52	20	28	35	41
9.0	S	22	32	42	54	20	29	40	52	24	36	50	65
	D	9	12	15	18	22	30	37	44	17	23	29	34
9.5	S	20	29	38	48	18	26	36	46	22	33	45	58
	D	8	10	13	16	18	25	31	37	14	20	25	29
10.0	S	18	26	34	43	16	24	32	42	20	29	40	52
	D	7	9	11	13	16	22	27	32	12	17	21	25
10.5	S	16	23	31	39	14	21	29	38	18	27	37	48
	D	6	8	10	11	14	19	23	28	11	15	18	22

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 S136-12 Load table prepared by Dr. R.M.Schuster P.Eng University of Waterloo, Ontario, Canada.



SECTION PROPERTIES (Per Metre of Width)

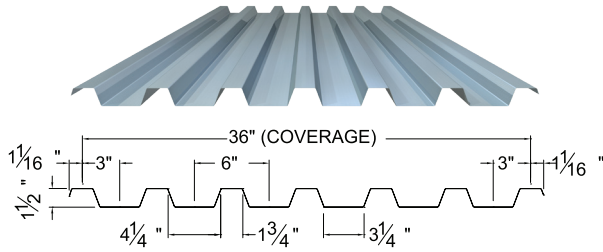
METRIC

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)
26	0.457	345	0.498	5.346	4.8	4.3	0.13	1.267	0.317	2.145	0.365
24	0.610	345	0.651	6.982	7.0	6.4	0.18	2.390	0.598	4.137	0.703
22	0.762	345	0.803	8.617	9.4	8.8	0.23	3.886	0.971	6.811	1.158
20	0.914	345	0.955	10.253	11.8	11.4	0.28	5.759	1.440	10.179	1.731

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)			
		0.457	0.610	0.762	0.914	0.457	0.610	0.762	0.914	0.457	0.610	0.762	0.914
1.0	S	7.99	11.60	15.49	19.54	7.12	10.61	14.57	18.94	8.89	13.27	18.22	23.67
	D	8.57	11.93	15.15	18.05	20.56	28.63	36.36	43.32	16.19	22.55	28.63	34.12
1.2	S	5.55	8.06	10.76	13.57	4.94	7.37	10.12	13.15	6.18	9.21	12.65	16.44
	D	4.96	6.90	8.77	10.45	11.90	16.57	21.04	25.07	9.37	13.05	16.57	19.74
1.4	S	4.08	5.92	7.90	9.97	3.63	5.41	7.44	9.66	4.54	6.77	9.29	12.08
	D	3.12	4.35	5.52	6.58	7.49	10.43	13.25	15.79	5.90	8.22	10.43	12.43
1.6	S	3.12	4.53	6.05	7.63	2.78	4.15	5.69	7.40	3.47	5.18	7.12	9.25
	D	2.09	2.91	3.70	4.41	5.02	6.99	8.88	10.58	3.95	5.50	6.99	8.33
1.8	S	2.47	3.58	4.78	6.03	2.20	3.28	4.50	5.84	2.75	4.09	5.62	7.31
	D	1.47	2.05	2.60	3.10	3.52	4.91	6.23	7.43	2.78	3.87	4.91	5.85
2.0	S	2.00	2.90	3.87	4.89	1.78	2.65	3.64	4.73	2.22	3.32	4.55	5.92
	D	1.07	1.49	1.89	2.26	2.57	3.58	4.54	5.42	2.02	2.82	3.58	4.26
2.2	S	1.65	2.40	3.20	4.04	1.47	2.19	3.01	3.91	1.84	2.74	3.76	4.89
	D	0.80	1.12	1.42	1.70	1.93	2.69	3.41	4.07	1.52	2.12	2.69	3.20
2.4	S	1.39	2.01	2.69	3.39	1.24	1.84	2.53	3.29	1.54	2.30	3.16	4.11
	D	0.62	0.86	1.10	1.31	1.49	2.07	2.63	3.13	1.17	1.63	2.07	2.47
2.6	S	1.18	1.72	2.29	2.89	1.05	1.57	2.16	2.80	1.32	1.96	2.69	3.50
	D	0.49	0.68	0.86	1.03	1.17	1.63	2.07	2.46	0.92	1.28	1.63	1.94
2.8	S	1.02	1.48	1.98	2.49	0.91	1.35	1.86	2.42	1.13	1.69	2.32	3.02
	D	0.39	0.54	0.69	0.82	0.94	1.30	1.66	1.97	0.74	1.03	1.30	1.55
3.0	S	0.89	1.29	1.72	2.17	0.79	1.18	1.62	2.10	0.99	1.47	2.02	2.63
	D	0.32	0.44	0.56	0.67	0.76	1.06	1.35	1.60	0.60	0.84	1.06	1.26
3.2	S	0.78	1.13	1.51	1.91	0.69	1.04	1.42	1.85	0.87	1.30	1.78	2.31
	D	0.26	0.36	0.46	0.55	0.63	0.87	1.11	1.32	0.49	0.69	0.87	1.04
3.4	S	0.69	1.00	1.34	1.69	0.62	0.92	1.26	1.64	0.77	1.15	1.58	2.05
	D	0.22	0.30	0.39	0.46	0.52	0.73	0.93	1.10	0.41	0.57	0.73	0.87
3.6	S	0.62	0.90	1.20	1.51	0.48	0.82	1.12	1.46	0.69	1.02	1.41	1.83
	D	0.18	0.26	0.32	0.39	0.44	0.61	0.78	0.93	0.35	0.48	0.61	0.73
3.8	S	0.55	0.80	1.07	1.35	0.49	0.73	1.01	1.31	0.62	0.92	1.26	1.64
	D	0.16	0.22	0.28	0.33	0.37	0.52	0.66	0.79	0.30	0.41	0.52	0.62
4.0	S	0.50	0.73	0.97	1.22	0.44	0.66	0.91	1.18	0.56	0.83	1.14	1.48
	D	0.13	0.19	0.24	0.28	0.32	0.45	0.57	0.68	0.25	0.35	0.45	0.53

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 S136-12 Load table prepared by Dr. R.M.Schuster P.Eng University of Waterloo, Ontario, Canada.



NARROW RIB

SECTION PROPERTIES (Per Foot of Width)

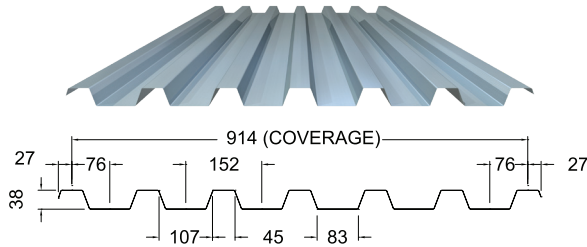
IMPERIAL

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)
26	0.0180	50	0.0196	1.095	0.084	0.084	0.078	86.8	21.7	147	25.0
24	0.0240	50	0.0256	1.430	0.125	0.122	0.111	163.7	40.9	283	48.2
22	0.0300	50	0.0316	1.765	0.170	0.165	0.147	266.1	66.5	466	79.3
20	0.0360	50	0.0376	2.100	0.219	0.210	0.184	394.3	98.6	697	118.5

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)

SPAN LENGTH (ft)		1 - SPAN				2 - SPAN				3 - SPAN			
		BASE STEEL THICKNESS (in)				BASE STEEL THICKNESS (in)				BASE STEEL THICKNESS (in)			
		0.0180	0.0240	0.0300	0.0360	0.0180	0.0240	0.0300	0.0360	0.0180	0.0240	0.0300	0.0360
3.0	S	188	277	377	487	186	272	367	467	232	340	458	584
	D	190	270	356	446	456	647	855	1071	359	509	673	844
3.5	S	138	204	277	358	136	200	269	343	171	250	337	429
	D	120	170	224	281	287	407	538	675	226	321	424	531
4.0	S	105	156	212	274	104	153	206	263	131	191	258	328
	D	80	114	150	188	192	273	361	452	152	215	284	356
4.5	S	83	123	168	217	83	121	163	208	103	151	204	259
	D	56	80	106	132	135	192	253	317	106	151	200	250
5.0	S	68	100	136	175	67	98	132	168	84	122	165	210
	D	41	58	77	96	99	140	185	231	78	110	145	182
5.5	S	56	82	112	145	55	81	109	139	69	101	136	174
	D	31	44	58	72	74	105	139	174	58	83	109	137
6.0	S	47	69	94	122	46	68	92	117	58	85	115	146
	D	24	34	45	56	57	81	107	134	45	64	84	105
6.5	S	40	59	80	104	40	58	78	99	49	72	95	124
	D	19	26	35	44	45	64	84	105	35	50	66	83
7.0	S	34	51	69	89	34	50	67	86	43	62	84	107
	D	15	21	28	35	36	51	67	84	28	40	53	66
7.5	S	30	44	60	78	30	44	59	75	37	54	73	93
	D	12	17	23	29	29	41	55	69	23	33	43	54
8.0	S	26	39	53	69	26	38	52	66	33	48	64	82
	D	10	14	19	24	24	34	45	56	19	27	36	44
8.5	S	23	35	47	61	23	34	46	58	29	42	57	73
	D	8	12	16	20	20	28	38	47	16	22	30	37
9.0	S	21	31	42	54	21	30	41	52	26	38	51	65
	D	7	10	13	17	17	24	32	40	13	19	25	31
9.5	S	19	28	38	49	19	27	37	47	23	34	46	58
	D	6	8	11	14	14	20	27	34	11	16	21	27
10.0	S	17	25	34	44	17	24	33	42	21	31	41	53
	D	5	7	10	12	12	17	23	29	10	14	18	23
10.5	S	15	23	31	40	15	22	30	38	19	28	37	48
	D	4	6	8	10	11	15	20	25	8	12	16	20

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 S136-12 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)
26	0.457	345	0.498	5.346	4.6	4.5	0.11	1.267	0.317	2.145	0.365
24	0.610	345	0.651	6.982	6.8	6.7	0.15	2.390	0.598	4.137	0.703
22	0.762	345	0.803	8.617	9.3	9.0	0.21	3.886	0.971	6.811	1.158
20	0.914	345	0.955	10.253	11.8	11.4	0.26	5.759	1.440	10.179	1.731

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)			
		0.457	0.610	0.762	0.914	0.457	0.610	0.762	0.914	0.457	0.610	0.762	0.914
1.0	S	7.61	11.25	15.35	19.59	7.53	11.04	14.88	18.94	9.41	13.80	18.60	23.68
	D	6.95	10.02	13.61	16.99	16.67	24.05	32.67	40.77	13.13	18.94	25.73	32.11
1.2	S	5.28	7.81	10.66	13.61	5.23	7.67	10.33	13.15	6.53	9.58	12.92	16.44
	D	4.02	5.80	7.88	9.83	9.65	13.92	18.91	23.59	7.60	10.96	14.89	18.58
1.4	S	3.88	5.74	7.83	10.00	3.84	5.63	7.59	9.66	4.80	7.04	9.49	12.08
	D	2.53	3.65	4.96	6.19	6.07	8.76	11.91	14.86	4.78	6.90	9.38	11.70
1.6	S	2.97	4.39	6.00	7.65	2.94	4.31	5.81	7.40	3.68	5.39	7.26	9.25
	D	1.70	2.45	3.32	4.15	4.07	5.87	7.98	9.95	3.20	4.62	6.28	7.84
1.8	S	2.35	3.47	4.74	6.05	2.32	3.41	4.59	5.85	2.90	4.26	5.74	7.31
	D	1.19	1.72	2.33	2.91	2.86	4.12	5.60	6.99	2.25	3.25	4.41	5.51
2.0	S	1.90	2.81	3.84	4.90	1.88	2.76	3.72	4.74	2.35	3.45	4.65	5.92
	D	0.87	1.25	1.70	2.12	2.08	3.01	4.08	5.10	1.64	2.37	3.22	4.01
2.2	S	1.57	2.32	3.17	4.05	1.56	2.28	3.07	3.91	1.94	2.85	3.84	4.89
	D	0.65	0.94	1.28	1.60	1.57	2.26	3.07	3.83	1.23	1.78	2.42	3.02
2.4	S	1.32	1.95	2.66	3.40	1.31	1.92	2.58	3.29	1.63	2.40	3.23	4.11
	D	0.50	0.72	0.98	1.23	1.21	1.74	2.36	2.95	0.95	1.37	1.86	2.32
2.6	S	1.13	1.66	2.27	2.90	1.11	1.63	2.20	2.80	1.39	2.04	2.75	3.50
	D	0.40	0.57	0.77	0.97	0.95	1.37	1.86	2.32	0.75	1.08	1.46	1.83
2.8	S	0.97	1.44	1.96	2.50	0.96	1.41	1.90	2.42	1.20	1.76	2.37	3.02
	D	0.32	0.46	0.62	0.77	0.76	1.10	1.49	1.86	0.60	0.86	1.17	1.46
3.0	S	0.85	1.25	1.71	2.18	0.84	1.23	1.65	2.10	1.05	1.53	2.07	2.63
	D	0.26	0.37	0.50	0.63	0.62	0.89	1.21	1.51	0.49	0.70	0.95	1.19
3.2	S	0.74	1.10	1.50	1.91	0.74	1.08	1.45	1.85	0.92	1.35	1.82	2.31
	D	0.21	0.31	0.42	0.52	0.51	0.73	1.00	1.24	0.40	0.58	0.79	0.98
3.4	S	0.66	0.97	1.33	1.70	0.65	0.96	1.29	1.64	0.81	1.19	1.61	2.05
	D	0.18	0.25	0.35	0.43	0.42	0.61	0.83	1.04	0.33	0.48	0.65	0.82
3.6	S	0.59	0.87	1.18	1.51	0.58	0.85	1.15	1.46	0.73	1.06	1.44	1.83
	D	0.15	0.21	0.29	0.36	0.36	0.52	0.70	0.87	0.28	0.41	0.55	0.69
3.8	S	0.53	0.78	1.06	1.36	0.52	0.76	1.03	1.31	0.65	0.96	1.29	1.64
	D	0.13	0.18	0.25	0.31	0.30	0.44	0.60	0.74	0.24	0.35	0.47	0.59
4.0	S	0.48	0.70	0.96	1.22	0.47	0.69	0.93	1.18	0.59	0.86	1.16	1.48
	D	0.11	0.16	0.21	0.27	0.26	0.38	0.51	0.64	0.21	0.30	0.40	0.50

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