

SECTION PROPERTIES (PER METRE OF WIDTH)

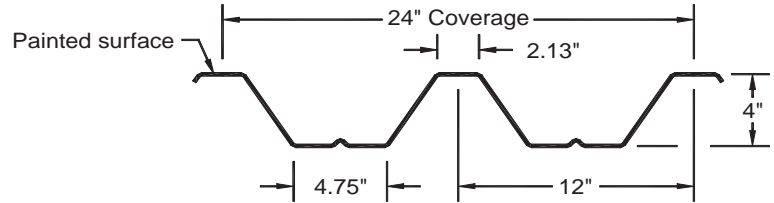
METRIC	Base Steel Thickness (mm)	Coated Steel Thickness (Z275) (mm)	Coated Mass (kg/m ²)	Sec. Modulus		Deflection Moment of Inertia (10 ⁶ mm ⁴)	Specified Web Crippling Data			
				Midspan	Support		P _{e1} End (kN)	P _{e2} End (kN)	P _{i1} Interior (kN)	P _{i2} Interior (kN)
				(10 ³ mm ³)	(10 ³ mm ³)					
	0.762	0.802	9.25	20.1	25.6	1.34	0.982	0.246	2.11	0.358
	0.914	0.954	11.0	25.0	31.1	1.65	1.48	0.371	3.14	0.533
	1.22	1.26	14.6	35.3	41.5	2.31	2.81	0.703	5.83	0.991

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)			
		0.762	0.914	1.22		0.762	0.914	1.22		0.762	0.914	1.22	
1.5	S	9.87	12.3	17.3		12.6	15.2	20.3		15.4	19.1	25.4	
	D	34.3	42.4	59.3		82.4	102	142		64.9	80.1	112	
1.6	S	8.68	10.8	15.2		11.0	13.4	17.9		13.6	16.7	22.3	
	D	28.3	34.9	48.9		67.9	83.9	117		53.5	66.0	92.4	
1.8	S	6.86	8.51	12.0		8.72	10.6	14.1		10.7	13.2	17.6	
	D	19.9	24.5	34.3		47.7	58.9	82.4		37.6	46.4	64.9	
2.0	S	5.55	6.89	9.75		7.06	8.57	11.4		8.68	10.7	14.3	
	D	14.5	17.9	25.0		34.8	42.9	60.1		27.4	33.8	47.3	
2.2	S	4.59	5.70	8.06		5.84	7.08	9.45		7.17	8.85	11.8	
	D	10.9	13.4	18.8		26.1	32.3	45.1		20.6	25.4	35.5	
2.4	S	3.86	4.79	6.77		4.91	5.95	7.94		6.03	7.44	9.92	
	D	8.38	10.4	14.5		20.1	24.9	34.8		15.8	19.6	27.4	
2.5	S	3.55	4.41	6.24		4.52	5.49	7.32		5.55	6.86	9.15	
	D	7.42	9.16	12.8		17.8	22.0	30.8		14.0	17.3	24.2	
2.6	S	3.29	4.08	5.77		4.18	5.07	6.76		5.13	6.34	8.46	
	D	6.59	8.14	11.4		15.8	19.5	27.3		12.5	15.4	21.5	
2.8	S	2.83	3.52	4.97		3.60	4.37	5.83		4.43	5.47	7.29	
	D	5.28	6.52	9.12		12.7	15.7	21.9		10.0	12.3	17.2	
3.0	S	2.47	3.06	4.33		3.14	3.81	5.08		3.86	4.76	6.35	
	D	4.29	5.30	7.42		10.3	12.7	17.8		8.11	10.0	14.0	
3.2	S	2.17	2.69	3.81		2.76	3.35	4.47		3.39	4.19	5.58	
	D	3.54	4.37	6.11		8.49	10.5	14.7		6.68	8.25	11.6	
3.4	S	1.92	2.38	3.37		2.44	2.97	3.96		3.00	3.71	4.94	
	D	2.95	3.64	5.09		7.07	8.74	12.2		5.57	6.88	9.63	
3.5	S	1.81	2.25	3.18		2.31	2.80	3.73		2.83	3.50	4.67	
	D	2.70	3.34	4.67		6.49	8.01	11.2		5.11	6.31	8.83	
3.6	S	1.71	2.13	3.01		2.18	2.65	3.53		2.68	3.31	4.41	
	D	2.48	3.07	4.29		5.96	7.36	10.3		4.69	5.80	8.11	
3.8	S	1.54	1.91	2.70		1.96	2.37	3.17		2.40	2.97	3.96	
	D	2.11	2.61	3.65		5.07	6.26	8.76		3.99	4.93	6.90	
4.0	S	1.39	1.72	2.44		1.77	2.14	2.86		2.17	2.68	3.57	
	D	1.81	2.24	3.13		4.34	5.37	7.51		3.42	4.23	5.91	

- Notes:**
- 1 Based on ASTM A 653 Grade 230 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. See Example.

Limit States Design principles were used in accordance with CSA Standard S136-01



SECTION PROPERTIES (PER FOOT OF WIDTH)

IMPERIAL	Base Steel Thickness (in.)	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)					
0.030	0.0315	1.89	0.375	0.477	0.980	66.6	16.6	143	24.3	
0.036	0.0375	2.26	0.465	0.579	1.21	101	25.1	213	36.1	
0.048	0.0495	3.00	0.658	0.771	1.69	191	47.7	395	67.2	

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

SPAN LENGTH (ft)		1-SPAN				2-SPAN				3-SPAN			
		BASE STEEL THICKNESS (inches)				BASE STEEL THICKNESS (inches)				BASE STEEL THICKNESS (inches)			
		0.030	0.036	0.048		0.030	0.036	0.048		0.030	0.036	0.048	
5.0	S	198	246	347		252	303	404		309	379	506	
	D	684	845	1182		642	2028	2838		293	1597	2235	
5.5	S	163	203	287		208	251	334		255	313	418	
	D	514	635	888		234	1524	2132		972	1200	1679	
6.0	S	137	170	241		175	211	281		215	263	351	
	D	396	489	684		950	1174	1642		748	924	1293	
6.5	S	117	145	205		149	180	239		183	224	299	
	D	311	385	538		747	923	1292		589	727	1017	
7.0	S	101	125	177		128	155	206		158	194	258	
	D	249	308	431		598	739	1034		471	582	814	
7.5	S	88	109	154		112	135	180		137	169	225	
	D	203	250	350		487	601	841		383	473	662	
8.0	S	77	96	136		98	119	158		121	148	197	
	D	167	206	289		401	495	693		316	390	546	
8.5	S	68	85	120		87	105	140		107	131	175	
	D	139	172	241		334	413	578		263	325	455	
9.0	S	61	76	107		78	94	125		95	117	156	
	D	117	145	203		282	348	487		222	274	383	
9.5	S	55	68	96		70	84	112		86	105	140	
	D	100	123	172		239	296	414		189	233	326	
10.0	S	49	61	87		63	76	101		77	95	126	
	D	86	106	148		205	254	355		162	200	279	
10.5	S	45	56	79		57	69	92		70	86	115	
	D	74	91	128		177	219	306		140	172	241	
11.0	S	41	51	72		52	63	84		64	78	104	
	D	64	79	111		154	190	267		121	150	210	
11.5	S	37	46	66		48	57	76		58	72	96	
	D	56	69	97		135	167	233		106	131	184	
12.0	S	34	43	60		44	53	70		54	66	88	
	D	49	61	86		119	147	205		94	116	162	
12.5	S	32	39	56		40	49	65		49	61	81	
	D	44	54	76		105	130	182		83	102	143	
13.0	S	29	36	51		37	45	60		46	56	75	
	D	39	48	67		93	115	161		74	91	127	

- Notes:**
- 1 Based on ASTM A 653 Grade 33 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. See Example.

Limit States Design principles were used in accordance with CSA Standard S136-01

