S-12-R

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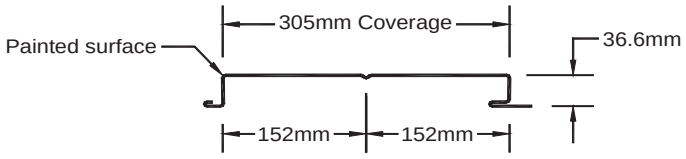

SECTION PROPERTIES (PER METRE OF WIDTH)

METRIC

Base Steel Thickness (mm)	Coated Steel Thickness (Z275) (mm)	Coated Mass (kg/m^2)	Sec. Modulus Midspan (10^3 mm^3)	Sec. Modulus Support (10^3 mm^3)	Deflection Moment of Inertia ($10^6 mm^4$)	Specified Web Crippling Data P_{e1} End (kN)	P_{e2} End (kN)	P_{i1} Interior (kN)	P_{i2} Interior (kN)
0.762	0.802	9.12	8.04	8.04	0.114	1.45	1.02	5.12	0.871
0.914	0.954	10.9	9.56	9.56	0.146	2.23	1.56	7.56	1.28
1.22	1.26	14.4	12.5	12.5	0.219	4.31	3.02	13.9	2.36

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

SPAN LENGTH (m)		1-SPAN BASE STEEL THICKNESS (mm)					2-SPAN BASE STEEL THICKNESS (mm)					3-SPAN BASE STEEL THICKNESS (mm)				
		0.762	0.914	1.22			0.762	0.914	1.22			0.762	0.914	1.22		
2.0	S	2.22	2.64	3.45			2.22	2.64	3.45			2.77	3.30	4.32		
	D	2.48	3.17	4.75			5.94	7.60	11.4			4.68	5.99	8.98		
2.2	S	1.83	2.18	2.85			1.83	2.18	2.85			2.29	2.73	3.57		
	D	1.86	2.38	3.57			4.46	5.71	8.56			3.52	4.50	6.74		
2.4	S	1.54	1.83	2.40			1.54	1.83	2.40			1.93	2.29	3.00		
	D	1.43	1.83	2.75			3.44	4.40	6.60			2.71	3.47	5.20		
2.5	S	1.42	1.69	2.21			1.42	1.69	2.21			1.78	2.11	2.76		
	D	1.27	1.62	2.43			3.04	3.89	5.84			2.40	3.07	4.60		
2.6	S	1.31	1.56	2.04			1.31	1.56	2.04			1.64	1.95	2.55		
	D	1.13	1.44	2.16			2.70	3.46	5.19			2.13	2.73	4.09		
2.8	S	1.13	1.35	1.76			1.13	1.35	1.76			1.42	1.68	2.20		
	D	0.90	1.15	1.73			2.17	2.77	4.15			1.71	2.18	3.27		
3.0	S	0.99	1.17	1.53			0.99	1.17	1.53			1.23	1.47	1.92		
	D	0.73	0.94	1.41			1.76	2.25	3.38			1.39	1.77	2.66		
3.2	S	0.87	1.03	1.35			0.87	1.03	1.35			1.08	1.29	1.69		
	D	0.60	0.77	1.16			1.45	1.86	2.78			1.14	1.46	2.19		
3.4	S	0.77	0.91	1.20			0.77	0.91	1.20			0.96	1.14	1.49		
	D	0.50	0.64	0.97			1.21	1.55	2.32			0.95	1.22	1.83		
3.5	S	0.72	0.86	1.13			0.72	0.86	1.13			0.91	1.08	1.41		
	D	0.46	0.59	0.89			1.11	1.42	2.13			0.87	1.12	1.68		
3.6	S	0.68	0.81	1.07			0.68	0.81	1.07			0.86	1.02	1.33		
	D	0.42	0.54	0.81			1.02	1.30	1.95			0.80	1.03	1.54		
3.8	S	0.61	0.73	0.96			0.61	0.73	0.96			0.77	0.91	1.20		
	D	0.36	0.46	0.69			0.87	1.11	1.66			0.68	0.87	1.31		
4.0	S	0.55	0.66	0.86			0.55	0.66	0.86			0.69	0.82	1.08		
	D	0.31	0.40	0.59			0.74	0.95	1.42			0.58	0.75	1.12		
4.2	S	0.50	0.60	0.78			0.50	0.60	0.78			0.63	0.75	0.98		
	D	0.27	0.34	0.51			0.64	0.82	1.23			0.51	0.65	0.97		

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 1/90th span.
4. Web crippling not included in strength calculations. See Example.

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

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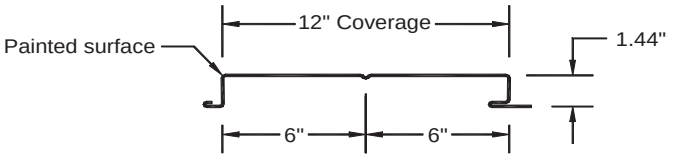

SECTION PROPERTIES (PER FOOT OF WIDTH)

IMPERIAL

Base Steel Thickness (in.)	Coated Steel Thickness (G90) (in.)	Coated Weight (psf)	Sec. Modulus Midspan ($in.^3$)	Sec. Modulus Support ($in.^3$)	Deflection Moment of Inertia ($in.^4$)	Specified Web Crippling Data P_{e1} End (lb)	P_{e2} End (lb)	P_{i1} Interior (lb)	P_{i2} Interior (lb)
0.030	0.0315	1.87	0.0912	0.150	0.0839	185	46.3	347	59.0
0.036	0.0375	2.23	0.121	0.178	0.107	273	68.2	512	87.1
0.048	0.0495	2.96	0.192	0.233	0.161	502	125	942	160

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

SPAN LENGTH (ft)		1-SPAN BASE STEEL THICKNESS (inches)					2-SPAN BASE STEEL THICKNESS (inches)					3-SPAN BASE STEEL THICKNESS (inches)				
		0.030	0.036	0.048			0.030	0.036	0.048			0.030	0.036	0.048		
6.0	S	33	45	70			55	65	85			52	70	107		
	D	68	87	130			163	208	312			128	164	246		
6.5	S	28	38	60			47	56	73			45	59	91		
	D	53	68	102			128	164	246			101	129	193		
7.0	S	25	33	52			40	48	63			38	51	78		
	D	43	55	82			102	131	197			81	103	155		
7.5	S	21	28	45			35	42	55			33	45	68		
	D	35	44	67			83	107	160			66	84	126		
8.0	S	19	25	40			31	37	48			29	39	60		
	D	29	37	55			69	88	132			54	69	104		
8.5	S	17	22	35			27	32	43			26	35	53		
	D	24	31	46			57	73	110			45	58	87		
9.0	S	15	20	31			24	29	38			23	31	47		
	D	20	26	39			48	62	93			38	49	73		
9.5	S	13	18	28			22	26	34			21	28	43		
	D	17	22	33			41	52	79			32	41	62		
10.0	S	12	16	25			20	23	31			19	25	38		
	D	15	19	28			35	45	67			28	35	53		
10.5	S	11	15	23			18	21	28			17	23	35		
	D	13	16	24			30	39	58			24	31	46		
11.0	S	10	13	21			16	19	25			16	21	32		
	D	11	14	21			26	34	51			21	27	40		
11.5	S	9	12	19			15	18	23			14	19	29		
	D	10	12	18			23	30	44			18	23	35		
12.0	S	8	11	18			14	16	21			13	17	27		
	D	8	11	16			20	26	39			16	20	31		
12.5	S	8	10	16			13	15	20			12	16	25		
	D	7	10	14			18	23	35			14	18	27		
13.0	S	7	9	15			12	14	18			11	15	23		
	D	7	9	13			16	20	31			13	16	24		
13.5	S	7	9	14			11	13	17			10	14	21		
	D	6	8	11			14	18	27			11	14	22		
14.0	S	6	8	13			10	12	16			10	13	20		
	D	5	7	10			13	16	25			10	13	19		

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 1/90th span.
4. Web crippling not included in strength calculations. See Example.

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

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