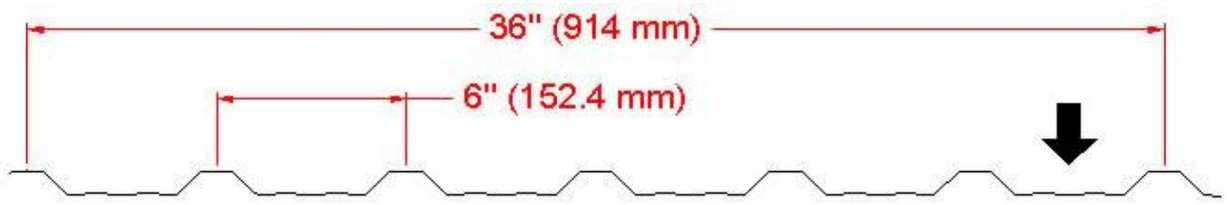
DUCHESNE
Solidly Dependable®

LC 23 SIDING



The load tables mentioned above do not necessarily represent the product availability. Please refer to the product catalogue.

SECTION PROPERTIES (PER FOOT OF WIDTH)

	Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	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)
IMPERIAL	0.012	0.63	33	0.0214	0.0196	0.0135	21.5	5.38	42.8	7.27
	0.015	0.77	33	0.0289	0.0272	0.0176	35.1	8.77	69.2	11.8
	0.018	0.91	33	0.0369	0.0354	0.0214	52.0	13.0	102	17.4
	0.024	1.20	33	0.0537	0.0489	0.0286	96.4	24.1	188	32.0
	0.030	1.49	33	0.0669	0.0624	0.0356	155	38.7	301	51.1

Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

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)				
		0.012	0.015	0.018	0.024	0.030	0.012	0.015	0.018	0.024	0.030	0.012	0.015	0.018	0.024	0.030
2.0	S	76	102	130	190	236	69	96	125	173	221	87	120	157	216	276
	D	196	256	312	415	518	472	614	748	997	1244	371	483	589	785	980
2.5	S	48	65	83	122	151	44	62	80	111	141	55	77	100	138	177
	D	101	131	160	213	265	241	314	383	510	637	190	247	302	402	502
3.0	S	34	45	58	84	105	31	43	56	77	98	39	53	70	96	123
	D	58	76	92	123	154	140	182	222	295	369	110	143	175	233	290
3.5	S	25	33	43	62	77	23	31	41	56	72	28	39	51	71	90
	D	37	48	58	77	97	88	114	140	186	232	69	90	110	146	183
4.0	S	19	26	33	47	59	17	24	31	43	55	22	30	39	54	69
	D	25	32	39	52	65	59	77	94	125	155	46	60	74	98	122
4.5	S	15	20	26	38	47	14	19	25	34	44	17	24	31	43	55
	D	17	22	27	36	46	41	54	66	87	109	33	42	52	69	86
5.0	S	12	16	21	30	38	11	15	20	28	35	14	19	25	35	44
	D	13	16	20	27	33	30	39	48	64	80	24	31	38	50	63
5.5	S	10	13	17	25	31	9	13	17	23	29	11	16	21	29	36
	D	9	12	15	20	25	23	30	36	48	60	18	23	28	38	47
6.0	S	8	11	14	21	26	8	11	14	19	25	10	13	17	24	31
	D	7	9	12	15	19	17	23	28	37	46	14	18	22	29	36
6.5	S	7	10	12	18	22	7	9	12	16	21	8	11	15	20	26
	D	6	7	9	12	15	14	18	22	29	36	11	14	17	23	29

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 S136-07

CSSBI

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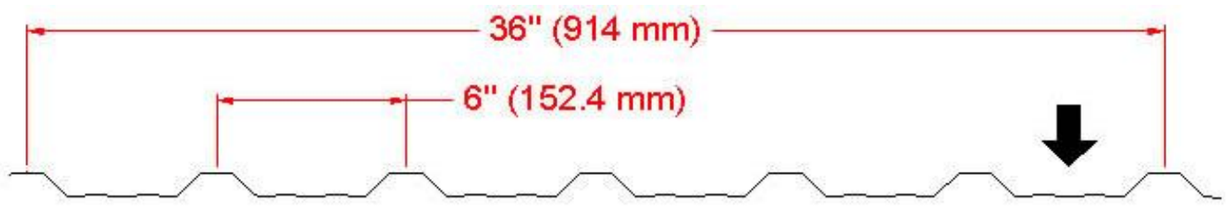

The load tables mentioned above do not necessarily represent the product availability. Please refer to the product catalogue.

SECTION PROPERTIES (PER METRE OF WIDTH)

METRIC	Base Steel Thickness (mm)	Mass Z275 (kg/m^2)	Yield Stress (MPa)	Sec. Modulus Midspan ($x10^3$ mm^3)	Sec. Modulus Support ($x10^3$ mm^3)	Deflection Moment of Inertia ($x10^6 mm^4$)	Specified Web Crippling Data P_{e1} End (kN)	P_{e2} End (kN)	P_{i1} Interior (kN)	P_{i2} Interior (kN)
	0.305	3.07	230	1.15	1.05	0.0184	0.318	0.0790	0.631	0.107
	0.381	3.76	230	1.55	1.46	0.0240	0.517	0.129	1.02	0.174
	0.457	4.46	230	1.98	1.90	0.0293	0.768	0.192	1.51	0.256
	0.610	5.86	230	2.88	2.63	0.0390	1.42	0.356	2.78	0.472
	0.762	7.25	230	3.60	3.36	0.0487	2.28	0.571	4.44	0.754

Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

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)				
		0.305	0.381	0.457	0.610	0.762	0.305	0.381	0.457	0.610	0.762	0.305	0.381	0.457	0.610	0.762
0.5	S	5.42	7.33	9.37	13.6	17.0	4.97	6.90	9.01	12.4	15.9	6.22	8.63	11.3	15.5	19.8
	D	17.0	22.2	27.0	36.0	45.0	40.9	53.2	64.9	86.5	108	32.2	41.9	51.1	68.1	85.0
0.6	S	3.77	5.09	6.50	9.47	11.8	3.45	4.79	6.26	8.62	11.0	4.32	5.99	7.82	10.8	13.8
	D	9.86	12.8	15.7	20.9	26.0	23.7	30.8	37.6	50.1	62.5	18.6	24.3	29.6	39.4	49.2
0.8	S	2.12	2.86	3.66	5.33	6.64	1.94	2.70	3.52	4.85	6.20	2.43	3.37	4.40	6.06	7.75
	D	4.16	5.41	6.60	8.80	11.0	9.98	13.0	15.9	21.1	26.4	7.86	10.2	12.5	16.6	20.8
1.0	S	1.36	1.83	2.34	3.41	4.25	1.24	1.73	2.25	3.10	3.97	1.55	2.16	2.81	3.88	4.96
	D	2.13	2.77	3.38	4.50	5.62	5.11	6.65	8.11	10.8	13.5	4.02	5.24	6.39	8.51	10.6
1.2	S	0.94	1.27	1.63	2.37	2.95	0.86	1.20	1.56	2.16	2.76	1.08	1.50	1.95	2.69	3.44
	D	1.23	1.60	1.96	2.61	3.25	2.96	3.85	4.70	6.3	7.81	2.33	3.03	3.70	4.93	6.15
1.4	S	0.69	0.94	1.19	1.74	2.17	0.63	0.88	1.15	1.58	2.02	0.79	1.10	1.44	1.98	2.53
	D	0.78	1.01	1.23	1.64	2.05	1.86	2.42	2.96	3.94	4.92	1.47	1.91	2.33	3.10	3.87
1.5	S	0.60	0.81	1.04	1.52	1.89	0.55	0.77	1.00	1.38	1.76	0.69	0.96	1.25	1.72	2.20
	D	0.63	0.82	1.00	1.33	1.67	1.51	1.97	2.40	3.20	4.00	1.19	1.55	1.89	2.52	3.15
1.6	S	0.53	0.72	0.91	1.33	1.66	0.49	0.67	0.88	1.21	1.55	0.61	0.84	1.10	1.52	1.94
	D	0.52	0.68	0.83	1.10	1.37	1.25	1.62	1.98	2.64	3.29	0.98	1.28	1.56	2.08	2.59
1.8	S	0.42	0.57	0.72	1.05	1.31	0.38	0.53	0.70	0.96	1.22	0.48	0.67	0.87	1.20	1.53
	D	0.37	0.48	0.58	0.77	0.96	0.88	1.14	1.39	1.85	2.31	0.69	0.90	1.10	1.46	1.82
2.0	S	0.34	0.46	0.59	0.85	1.06	0.31	0.43	0.56	0.78	0.99	0.39	0.54	0.70	0.97	1.24
	D	0.27	0.35	0.42	0.56	0.70	0.64	0.83	1.01	1.35	1.69	0.50	0.65	0.80	1.06	1.33

Notes:

1. Based on ASTM A 653M 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 S136-07

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