

↓ Arrow indicates the colour side

Groove optional

SECTION PROPERTIES (PER FOOT OF WIDTH)

IMPERIAL	Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	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)					
0.024	1.49	33	0.0705	0.111	0.0804	133	33.3	244	41.5	
0.030	1.84	33	0.0991	0.138	0.109	215	53.6	394	67.0	
0.036	2.20	33	0.132	0.163	0.138	316	79.0	582	98.9	
0.048	2.92	33	0.184	0.211	0.202	579	145	1070	182	

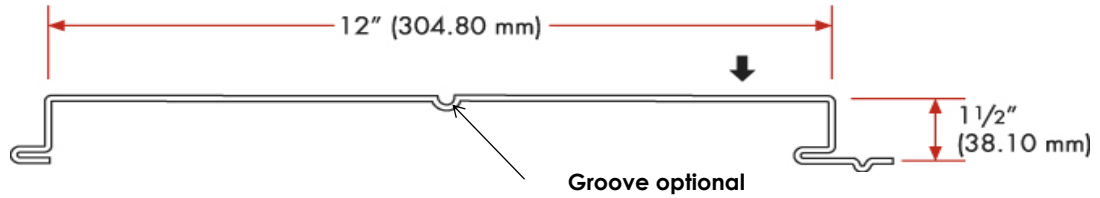
Live Load Factor = 1.4; Importance Factor = 0.75; Importance Category = 1.00

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.)			
		0.024	0.030	0.036	0.048	0.024	0.030	0.036	0.048	0.024	0.030	0.036	0.048
4.0	S	62	88	116	162	98	122	144	186	97	137	180	233
	D	146	197	250	368	351	474	601	882	276	373	473	695
4.5	S	49	69	92	128	77	96	114	147	77	108	142	184
	D	103	139	176	258	246	333	422	620	194	262	332	488
5.0	S	40	56	75	104	63	78	92	119	62	88	115	149
	D	75	101	128	188	180	243	308	452	141	191	242	356
5.5	S	33	46	62	86	52	64	76	99	52	72	95	123
	D	56	76	96	141	135	182	231	339	106	143	182	267
6.0	S	28	39	52	72	43	54	64	83	43	61	80	104
	D	43	58	74	109	104	140	178	261	82	111	140	206
6.5	S	24	33	44	61	37	46	55	71	37	52	68	88
	D	34	46	58	86	82	110	140	206	64	87	110	162
7.0	S	20	29	38	53	32	40	47	61	32	45	59	76
	D	27	37	47	69	65	88	112	165	52	70	88	130
7.5	S	18	25	33	46	28	35	41	53	28	39	51	66
	D	22	30	38	56	53	72	91	134	42	57	72	105
8.0	S	16	22	29	41	24	30	36	47	24	34	45	58
	D	18	25	31	46	44	59	75	110	35	47	59	87
8.5	S	14	19	26	36	22	27	32	41	22	30	40	52
	D	15	21	26	38	37	49	63	92	29	39	49	72
9.0	S	12	17	23	32	19	24	28	37	19	27	36	46
	D	13	17	22	32	31	42	53	77	24	33	42	61

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.
- 5 Limit States Design principles were used in accordance with CSA Standard S136-16.
- 6 The load tables shown do not necessarily represent the product availability. Please refer to the product catalogue at duchesne.ca or one of Duchesne representatives.



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SECTION PROPERTIES (PER METRE OF WIDTH)

METRIC	Base Steel Thickness (mm)	Mass Z275 (kg/m ²)	Yield Stress (MPa)	Sec. Modulus		Deflection Moment of Inertia (x10 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)
				(x10 ³ mm ³)	(x10 ³ mm ³)					
	0.610	7.25	230	3.79	5.95	0.110	1.96	0.491	3.60	0.611
	0.762	8.99	230	5.33	7.41	0.148	3.16	0.790	5.81	0.988
	0.914	10.7	230	7.08	8.76	0.188	4.66	1.16	8.58	1.46
	1.22	14.2	230	9.87	11.3	0.276	8.54	2.13	15.8	2.68

Live Load Factor = 1.4; Importance Factor = 0.75; Importance Category = 1.00

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)			
		0.610	0.762	0.914	1.22	0.610	0.762	0.914	1.22	0.610	0.762	0.914	1.22
1.2	S	3.11	4.38	5.82	8.10	4.88	6.09	7.19	9.31	4.86	6.84	8.99	11.6
	D	7.34	9.91	12.6	18.5	17.6	23.8	30.2	44.3	13.9	18.7	23.8	34.9
1.4	S	2.29	3.22	4.27	5.95	3.59	4.47	5.29	6.84	3.57	5.02	6.61	8.55
	D	4.62	6.24	7.92	11.6	11.1	15.0	19.0	27.9	8.73	11.8	15.0	22.0
1.5	S	1.99	2.80	3.72	5.19	3.13	3.89	4.60	5.96	3.11	4.38	5.76	7.45
	D	3.76	5.07	6.44	9.45	9.02	12.2	15.5	22.7	7.10	9.59	12.2	17.9
1.6	S	1.75	2.46	3.27	4.56	2.75	3.42	4.05	5.24	2.74	3.85	5.06	6.55
	D	3.10	4.18	5.31	7.79	7.43	10.0	12.7	18.7	5.85	7.90	10.0	14.7
1.8	S	1.38	1.95	2.58	3.60	2.17	2.70	3.20	4.14	2.16	3.04	4.00	5.17
	D	2.17	2.94	3.73	5.47	5.22	7.05	8.94	13.1	4.11	5.55	7.04	10.3
2.0	S	1.12	1.58	2.09	2.92	1.76	2.19	2.59	3.35	1.75	2.46	3.24	4.19
	D	1.58	2.14	2.72	3.99	3.80	5.14	6.52	9.57	3.00	4.05	5.13	7.54
2.2	S	0.93	1.30	1.73	2.41	1.45	1.81	2.14	2.77	1.45	2.03	2.68	3.46
	D	1.19	1.61	2.04	3.00	2.86	3.86	4.90	7.19	2.25	3.04	3.86	5.66
2.4	S	0.78	1.09	1.45	2.03	1.22	1.52	1.80	2.33	1.22	1.71	2.25	2.91
	D	0.92	1.24	1.57	2.31	2.20	2.97	3.77	5.54	1.73	2.34	2.97	4.36
2.5	S	0.72	1.01	1.34	1.87	1.13	1.40	1.66	2.15	1.12	1.58	2.07	2.68
	D	0.81	1.10	1.39	2.04	1.95	2.63	3.34	4.90	1.53	2.07	2.63	3.86
2.6	S	0.66	0.93	1.24	1.73	1.04	1.30	1.53	1.98	1.04	1.46	1.92	2.48
	D	0.72	0.97	1.24	1.82	1.73	2.34	2.97	4.36	1.36	1.84	2.34	3.43
2.8	S	0.57	0.80	1.07	1.49	0.90	1.12	1.32	1.71	0.89	1.26	1.65	2.14
	D	0.58	0.78	0.99	1.45	1.39	1.87	2.38	3.49	1.09	1.47	1.87	2.75

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.
- 5 Limit States Design principles were used in accordance with CSA Standard S136-16.
- 6 The load tables shown do not necessarily represent the product availability. Please refer to the product catalogue at duchesne.ca or one of Duchesne representatives.