

↓ Arrow indicates the colour side. Groove optional

SECTION PROPERTIES (PER FOOT OF WIDTH)

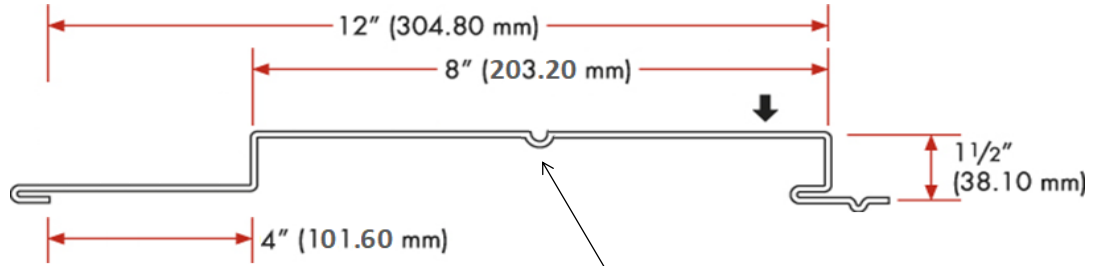
IMPERIAL	Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Sec. Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
				Midspan	Support		P _{e1} End (lb)	P _{e2} End (lb)	P _{i1} Interior (lb)	P _{i2} Interior (lb)
				(in ³)	(in ³)					
	0.024	1.49	33	0.0698	0.129	0.0972	133	33.3	244	41.5
	0.030	1.84	33	0.0979	0.168	0.134	215	53.6	394	67.0
	0.036	2.20	33	0.130	0.207	0.172	316	79.0	582	98.9
	0.048	2.92	33	0.204	0.290	0.251	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	87	115	180	110	148	183	256	96	135	179	281
	D	177	243	312	456	424	583	750	1094	334	459	590	861
4.5	S	49	68	91	142	87	117	145	202	76	107	142	222
	D	124	171	219	320	298	409	527	768	234	322	415	605
5.0	S	39	55	73	115	71	95	117	164	62	87	115	180
	D	90	124	160	233	217	298	384	560	171	235	302	441
5.5	S	33	46	61	95	58	78	97	135	51	72	95	149
	D	68	93	120	175	163	224	288	421	128	177	227	331
6.0	S	27	38	51	80	49	66	81	114	43	60	80	125
	D	52	72	93	135	126	173	222	324	99	136	175	255
6.5	S	23	33	43	68	42	56	69	97	37	51	68	107
	D	41	57	73	106	99	136	175	255	78	107	138	201
7.0	S	20	28	37	59	36	48	60	84	31	44	59	92
	D	33	45	58	85	79	109	140	204	62	86	110	161
7.5	S	18	25	33	51	31	42	52	73	27	38	51	80
	D	27	37	47	69	64	88	114	166	51	70	90	131
8.0	S	15	22	29	45	28	37	46	64	24	34	45	70
	D	22	30	39	57	53	73	94	137	42	57	74	108
8.5	S	14	19	25	40	24	33	41	57	21	30	40	62
	D	18	25	33	48	44	61	78	114	35	48	62	90
9.0	S	12	17	23	36	22	29	36	51	19	27	35	56
	D	16	21	27	40	37	51	66	96	29	40	52	76

- 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	3.75	6.91	0.133	1.96	0.491	3.60	0.611
	0.762	8.99	230	5.26	9.01	0.182	3.16	0.790	5.81	0.988
	0.914	10.7	230	6.98	11.1	0.235	4.66	1.16	8.58	1.46
	1.22	14.2	230	11.0	15.6	0.343	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	3.08	4.32	5.73	9.00	5.50	7.40	9.15	12.8	4.82	6.76	8.96	14.1
	D	8.87	12.2	15.7	22.9	21.3	29.3	37.7	54.9	16.8	23.0	29.7	43.3
1.4	S	2.26	3.18	4.21	6.61	4.04	5.44	6.72	9.40	3.54	4.96	6.58	10.3
	D	5.59	7.68	9.88	14.4	13.4	18.4	23.7	34.6	10.6	14.5	18.7	27.2
1.5	S	1.97	2.77	3.67	5.76	3.52	4.74	5.85	8.19	3.08	4.32	5.73	9.00
	D	4.54	6.24	8.03	11.7	10.9	15.0	19.3	28.1	8.58	11.8	15.2	22.2
1.6	S	1.73	2.43	3.22	5.06	3.10	4.16	5.14	7.19	2.71	3.80	5.04	7.91
	D	3.74	5.14	6.62	9.66	8.98	12.4	15.9	23.2	7.07	9.72	12.5	18.3
1.8	S	1.37	1.92	2.55	4.00	2.45	3.29	4.06	5.68	2.14	3.00	3.98	6.25
	D	2.63	3.61	4.65	6.78	6.31	8.67	11.2	16.3	4.97	6.83	8.79	12.8
2.0	S	1.11	1.56	2.06	3.24	1.98	2.66	3.29	4.60	1.73	2.43	3.22	5.06
	D	1.92	2.63	3.39	4.94	4.60	6.32	8.13	11.9	3.62	4.98	6.40	9.34
2.2	S	0.92	1.29	1.71	2.68	1.64	2.20	2.72	3.81	1.43	2.01	2.66	4.18
	D	1.44	1.98	2.55	3.71	3.46	4.75	6.11	8.91	2.72	3.74	4.81	7.02
2.4	S	0.77	1.08	1.43	2.25	1.38	1.85	2.29	3.20	1.20	1.69	2.24	3.52
	D	1.11	1.52	1.96	2.86	2.66	3.66	4.71	6.87	2.10	2.88	3.71	5.41
2.5	S	0.71	1.00	1.32	2.07	1.27	1.71	2.11	2.95	1.11	1.56	2.06	3.24
	D	0.98	1.35	1.73	2.53	2.35	3.24	4.16	6.08	1.85	2.55	3.28	4.78
2.6	S	0.66	0.92	1.22	1.92	1.17	1.58	1.95	2.72	1.03	1.44	1.91	3.00
	D	0.87	1.20	1.54	2.25	2.09	2.88	3.70	5.40	1.65	2.27	2.92	4.25
2.8	S	0.57	0.79	1.05	1.65	1.01	1.36	1.68	2.35	0.88	1.24	1.65	2.58
	D	0.70	0.96	1.23	1.80	1.68	2.30	2.96	4.32	1.32	1.81	2.33	3.41

- 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.