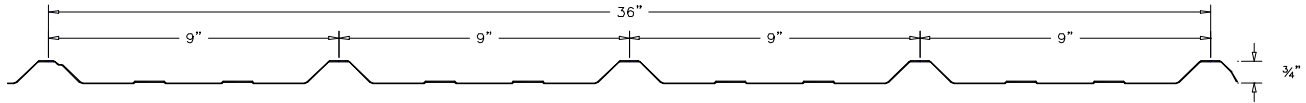


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COMPLETE LINE OF STEEL SIDING AND ROOFING



I/9 PROFILE - LOW OCCUPANCY

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)					
	0.016 (80 ksi)	0.0175	0.76	0.0184	0.0155	0.0122	56.9	14.2	111	18.8
	0.019 (80 ksi)	0.0205	0.89	0.0228	0.0187	0.0144	82.6	20.7	161	27.4
	0.019 (33 ksi)	0.0205	0.89	0.0229	0.0196	0.0144	45.8	11.5	89.5	15.2
	0.024 (33 ksi)	0.0255	1.10	0.0287	0.0255	0.0182	75.8	19.0	149	25.3

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

SPAN LENGTH (in.)	Yield	1-SPAN				2-SPAN				3-SPAN			
		BASE STEEL THICKNESS (in.)				BASE STEEL THICKNESS (in.)				BASE STEEL THICKNESS (in.)			
		0.016	0.019	0.019	0.024	0.016	0.019	0.019	0.024	0.016	0.019	0.019	0.024
		80 ksi	80 ksi	33 ksi	33 ksi	80 ksi	80 ksi	33 ksi	33 ksi	80 ksi	80 ksi	33 ksi	33 ksi
12	S	548	677	377	474	460	557	324	420	574	697	405	526
	D	1062	1260	1260	1589	2550	3025	3025	3814	2008	2382	2382	3004
16	S	308	381	212	266	258	313	182	237	323	392	228	296
	D	448	532	532	670	1076	1276	1276	1609	847	1005	1005	1267
20	S	197	244	136	171	165	201	117	151	207	251	146	189
	D	229	272	272	343	551	653	653	824	434	515	515	649
24	S	137	169	94	118	115	139	81	105	144	174	101	131
	D	133	158	158	199	319	378	378	477	251	298	298	375
30	S	88	108	60	76	74	89	52	67	92	111	65	84
	D	68	81	81	102	163	194	194	244	129	152	152	192
36	S	61	75	42	53	51	62	36	47	64	77	45	58
	D	39	47	47	59	94	112	112	141	74	88	88	111
42	S	45	55	31	39	38	45	26	34	47	57	33	43
	D	25	29	29	37	59	71	71	89	47	56	56	70
48	S	34	42	24	30	29	35	20	26	36	44	25	33
	D	17	20	20	25	40	47	47	60	31	37	37	47
54	S	27	33	19	23	23	28	16	21	28	34	20	26
	D	12	14	14	17	28	33	33	42	22	26	26	33
60	S	22	27	15	19	18	22	13	17	23	28	16	21
	D	8	10	10	13	20	24	24	31	16	19	19	24
72	S	15	19	10	13	13	15	9	12	16	19	11	15
	D	5	6	6	7	12	14	14	18	9	11	11	14

- Notes:
- 1 Based on ASTM A 653 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