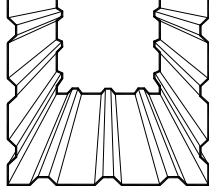


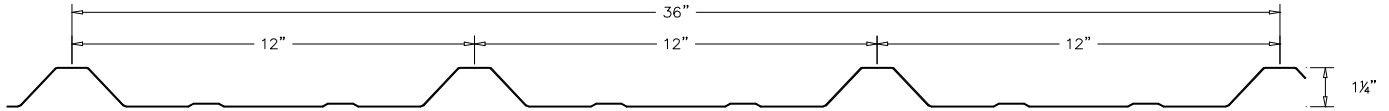
FORMA



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COMPLETE LINE OF STEEL SIDING AND ROOFING



III/12 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	0.77	0.0308	0.0260	0.0345	40.5	10.1	83.7	14.2
	0.019 (80 ksi)	0.0205	0.90	0.0383	0.0330	0.0424	59.2	14.8	122	20.8
	0.019 (33 ksi)	0.0205	0.90	0.0414	0.0348	0.0427	32.9	8.22	67.8	11.5
	0.024 (33 ksi)	0.0255	1.12	0.0543	0.0453	0.0539	54.8	13.7	113	19.2

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
12	S	916	1138	683	896	772	980	574	748	965	1225	717	935
	D	3006	3703	3729	4705	7215	8887	8950	11292	5682	6999	7048	8892
16	S	515	640	384	504	434	551	323	421	543	689	403	526
	D	1268	1562	1573	1985	3044	3749	3776	4764	2397	2953	2973	3751
20	S	330	410	246	323	278	353	207	269	347	441	258	336
	D	649	800	805	1016	1558	1920	1933	2439	1227	1512	1522	1921
24	S	229	285	171	224	193	245	143	187	241	306	179	234
	D	376	463	466	588	902	1111	1119	1411	710	875	881	1112
30	S	147	182	109	143	124	157	92	120	154	196	115	150
	D	192	237	239	301	462	569	573	723	364	448	451	569
36	S	102	126	76	100	86	109	64	83	107	136	80	104
	D	111	137	138	174	267	329	331	418	210	259	261	329
42	S	75	93	56	73	63	80	47	61	79	100	59	76
	D	70	86	87	110	168	207	209	263	133	163	164	207
48	S	57	71	43	56	48	61	36	47	60	77	45	58
	D	47	58	58	74	113	139	140	176	89	109	110	139
54	S	45	56	34	44	38	48	28	37	48	60	35	46
	D	33	41	41	52	79	98	98	124	62	77	77	98
60	S	37	46	27	36	31	39	23	30	39	49	29	37
	D	24	30	30	38	58	71	72	90	45	56	56	71
72	S	25	32	19	25	21	27	16	21	27	34	20	26
	D	14	17	17	22	33	41	41	52	26	32	33	41

- 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