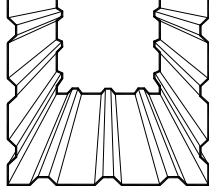


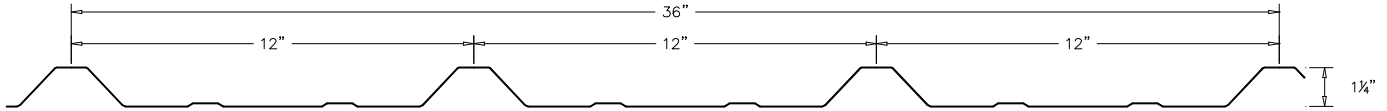
FORMA



STEEL Ltd.

Box 1690, Fort Macleod, Alberta T0L-0Z0
 Fax (403) 553-3896 Ph. (403) 553-3309

COMPLETE LINE OF STEEL SIDING AND ROOFING



III/12 PROFILE - NORMAL 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 (in. ³)	Support (in. ³)		P _{e1} End (lb)	P _{e2} End (lb)	P _{i1} Interior (lb)	P _{i2} Interior (lb)				
											0.016 (80 ksi)	0.0175	0.77	0.0308
				0.019 (80 ksi)	0.0205		0.90	0.0383	0.0330	0.0424	47.4	11.8	97.7	16.6
0.019 (33 ksi)	0.0205	0.90	0.0414	0.0348	0.0427	26.3	6.57	54.2	9.22					
0.024 (33 ksi)	0.0255	1.12	0.0543	0.0453	0.0539	43.9	11.0	90.2	15.3					

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	733	911	547	717	618	784	459	598	772	980	574	748
	D	3006	3703	3729	4705	7215	8887	8950	11292	5682	6999	7048	8892
16	S	412	512	308	403	347	441	258	336	434	551	323	421
	D	1268	1562	1573	1985	3044	3749	3776	4764	2397	2953	2973	3751
20	S	264	328	197	258	222	282	165	215	278	353	207	269
	D	649	800	805	1016	1558	1920	1933	2439	1227	1512	1522	1921
24	S	183	228	137	179	154	196	115	150	193	245	143	187
	D	376	463	466	588	902	1111	1119	1411	710	875	881	1112
30	S	117	146	87	115	99	125	73	96	124	157	92	120
	D	192	237	239	301	462	569	573	723	364	448	451	569
36	S	81	101	61	80	69	87	51	66	86	109	64	83
	D	111	137	138	174	267	329	331	418	210	259	261	329
42	S	60	74	45	59	50	64	37	49	63	80	47	61
	D	70	86	87	110	168	207	209	263	133	163	164	207
48	S	46	57	34	45	39	49	29	37	48	61	36	47
	D	47	58	58	74	113	139	140	176	89	109	110	139
54	S	36	45	27	35	30	39	23	30	38	48	28	37
	D	33	41	41	52	79	98	98	124	62	77	77	98
60	S	29	36	22	29	25	31	18	24	31	39	23	30
	D	24	30	30	38	58	71	72	90	45	56	56	71
72	S	20	25	15	20	17	22	13	17	21	27	16	21
	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