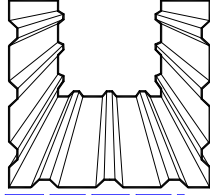


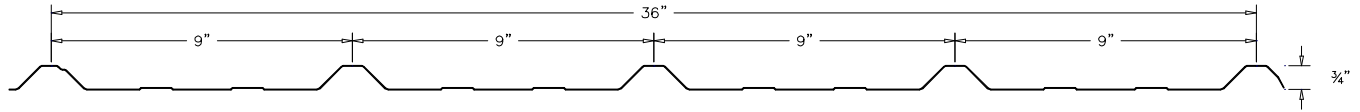
FORMA



STEEL Ltd.

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

COMPLETE LINE OF STEEL SIDING AND ROOFING



I/9 PROFILE - NORMAL OCCUPANCY

SECTION PROPERTIES (PER FOOT OF WIDTH)

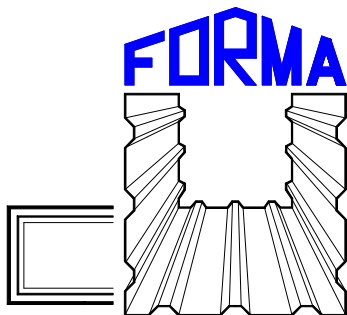
IMPERIAL	Gauge	Coated Steel Thickness (G90) (in.)	Coated Weight (psf)	Sec. Modulus		Deflection Moment of Inertia (in. ⁴)	Specified Web Crippling Data			
				Midspan	Support		P _{e1} End (lb)	P _{e2} End (lb)	P _{i1} Interior (lb)	P _{i2} Interior (lb)
				(in. ³)	(in. ³)					
	28 (80 ksi)	0.0175	0.76	0.0184	0.0155	0.0122	45.5	11.4	88.5	15.0
	26 (80 ksi)	0.0205	0.89	0.0228	0.0187	0.0144	66.1	16.5	129	21.9
	26 (33 ksi)	0.0205	0.89	0.0229	0.0196	0.0144	36.7	9.17	71.6	12.2
	24 (33 ksi)	0.0255	1.10	0.0287	0.0255	0.0182	60.7	15.2	119	20.2

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

SPAN LENGTH (in.)	Yield	1-SPAN Gauge				2-SPAN Gauge				3-SPAN Gauge			
		28	26	26	24	28	26	26	24	28	26	26	24
		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	438	541	302	379	368	446	259	336	460	557	324	420
	D	1062	1260	1260	1589	2550	3025	3025	3814	2008	2382	2382	3004
16	S	246	305	170	213	207	251	146	189	258	313	182	237
	D	448	532	532	670	1076	1276	1276	1609	847	1005	1005	1267
20	S	158	195	109	136	132	160	93	121	165	201	117	151
	D	229	272	272	343	551	653	653	824	434	515	515	649
24	S	110	135	75	95	92	111	65	84	115	139	81	105
	D	133	158	158	199	319	378	378	477	251	298	298	375
30	S	70	87	48	61	59	71	41	54	74	89	52	67
	D	68	81	81	102	163	194	194	244	129	152	152	192
36	S	49	60	34	42	41	50	29	37	51	62	36	47
	D	39	47	47	59	94	112	112	141	74	88	88	111
42	S	36	44	25	31	30	36	21	27	38	45	26	34
	D	25	29	29	37	59	71	71	89	47	56	56	70
48	S	27	34	19	24	23	28	16	21	29	35	20	26
	D	17	20	20	25	40	47	47	60	31	37	37	47
54		22	27	15	19	18	22	13	17	23	28	16	21
		12	14	14	17	28	33	33	42	22	26	26	33
60	S	18	22	12	15	15	18	10	13	18	22	13	17
	D	8	10	10	13	20	24	24	31	16	19	19	24
72	S	12	15	8	11	10	12	7	9	13	15	9	12
	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



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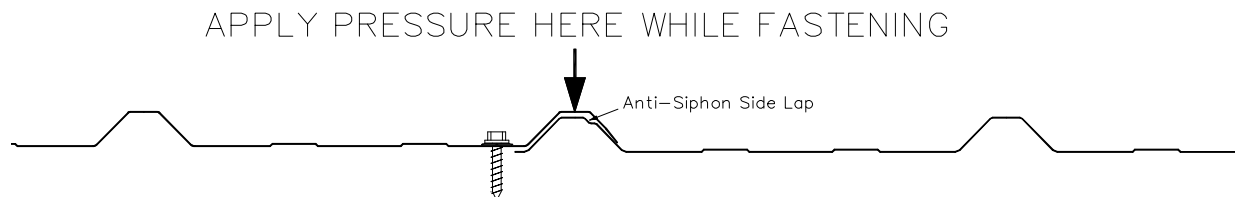
COMPLETE LINE OF STEEL SIDING AND ROOFING

STEEL Ltd.

FC 36 & I/9 PROFILE - INSTALLATION INSTRUCTIONS

Forma I/9 and Forma FC 36 metal sheeting profiles may be installed vertically on building sidewalls and /or roof. Special attention must be given as to how the sheets are overlapped, as seen in diagram A. First overlap the panels covering the anti siphon side lap. Next while applying pressure, fasten the overlapping side. Fasten the remainder of the sheet towards the under lap side. When the correct pressure is used, all the joints will be inconspicuous and water tight.

SIDE OVERLAP DETAIL A:



With roof and wall applications, start installing at the end of the building opposite the direction of the prevailing wind. With horizontal wall applications, start installing the metal at ground level and work up. On walls the girt spacing to which the metal is being applied should be no more than 36" o/c. On roofs, the purlin spacing ought to be no more than 24" o/c. The minimum slope to which I/9 or FC 36 profiled steel should be applied without using sealing tape is 3/12.

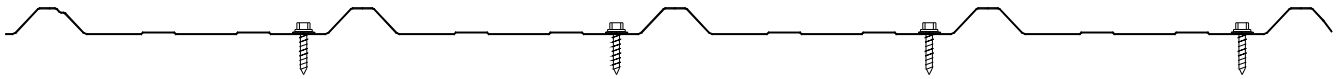
I/9 or FC 36 profile panels should be no longer than 25' to minimize the effect of metal expansion and contraction. This length is also easier to handle during installation. In situations where longer lengths are required, the ends will be overlapped. On roofs, the distance of end overlap varies with the amount of slope. When the slope is from 2-2.5/12 an end overlap of 12" is required, a 2.5-4/12 slope requires a 9" overlap, and a 4/12 slope requires a 6" overlap.

To further moisture proof the building, a recommended sealing tape or caulking may be installed on all overlapping edges. Side edge overlaps should be caulked at the top of the rib, while end overlaps should be caulked at the ends of both the top and bottom sheet.

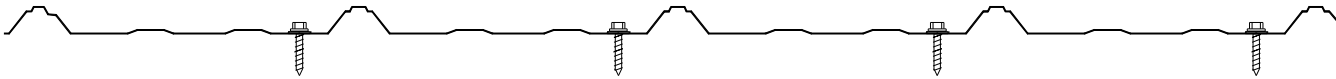
FASTENERS:

Screw fasteners of 1" to 2" length are placed beside every high rib on the width of the sheet and at each girt or purlin as per detail B on the reverse side of this sheet. To estimate the quantity of screw fasteners required, estimate 1 screw per square foot of cladding. Screws should be installed to firmly hold the cladding, but must not be overdriven as this will cause the washers to squeeze out or dent the cladding. Panels should always be fastened to a rigid backing, not onto a backing of old shingles or insulation for example.

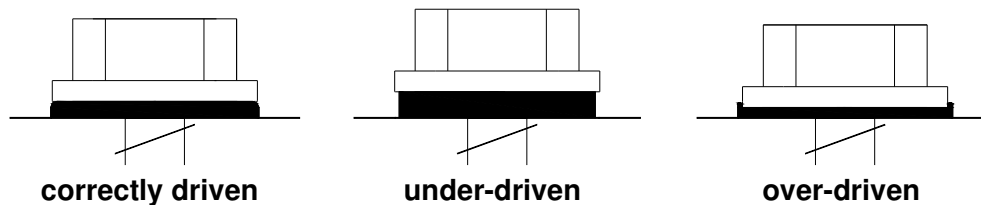
**DETAIL B:
FORMA I/9 PROFILE**



FORMA FC 36 PROFILE



Proper Installation of Fasteners



CUTTING:

Because the underside is flatter it is recommended that roofing and siding be cut from this side. A power saw, nibbler, snips or profile shear may be used. Be sure to clean metal filings from off the panels to prevent unsightly stains.

STORAGE INSTRUCTIONS:

If the panels are not going to be used immediately, they should be stored in a dry well ventilated area. If it is not possible to store the material inside, block up the panels to allow air movement around the packages. Also raise one side of the bundles to ensure positive draining, and use a good quality cover (other than plastic) anchored loosely to protect the material and still allow ventilation. Store away from aggressive substances and any other materials that could contaminate the surface of the panels.

APPLICATION PRECAUTIONS:

Metal installed with screw fasteners should be fastened onto a solid backing. Avoid installing directly over green, damp or ACQ lumber, porous insulation or other damaging materials. The use of a moisture barrier (such as Ice & Water Shield) is recommended in such situations. Strong chemicals, fertilizers, manure, some soils, and lime may cause premature deterioration. Installation near such materials is not recommended.

WARNING:

Material is slippery and has sharp edges, use extreme caution when handling or installing. Avoid working with sheet metal products on windy days. In areas of snow or ice accumulation, snow stops may need to be added to prevent snow or ice, from sliding off roofs, damaging eaves troughs or falling on objects below.