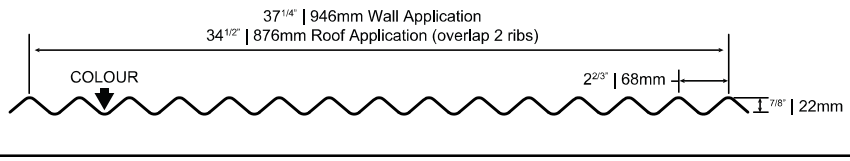
Load Table | Imperial
7/8" Corrugated Cladding Profile

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 calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.

LIMIT STATES DESIGN



SECTION PROPERTIES | Per Foot of Width

Base Steel Thickness (inches)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in^4)	Specified Web Crippling Data			
			Midspan (in^3)	Support (in^3)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi1 Interior (lb)
0.0135	0.74	80	0.0404	0.0404	0.0177				
0.0180	0.97	33	0.0531	0.0531	0.0232				
0.0180	0.97	50	0.0531	0.0531	0.0232				
0.0240	1.27	33	0.0697	0.0697	0.0305				
0.0300	1.58	33	0.0856	0.0856	0.0375				

LLF = 1.40; IMPF = 0.75; NORMAL OCCUPANCY = 1.0

LOAD TABLE | Maximum Uniformly Distributed Specified Loads (psf).

Span Length (ft)		1-Span Base Steel Thickness (inches)						2-Span Base Steel Thickness (inches)						3-Span Base Steel Thickness (inches)					
		0.0135	0.0180	0.0180	0.0240	0.0300		0.0135	0.0180	0.0180	0.0240	0.0300		0.0135	0.0180	0.0180	0.0240	0.0300	
Y.S.* (ksi)		80	33	50	33	33		80	33	50	33	33		80	33	50	33	33	
2.0	S	259	188	285	246	303		259	188	285	246	303		324	235	356	308	378	
2.0	D	257	338	338	443	545		616	811	811	1064	1307		485	639	639	838	1029	
2.5	S	166	120	182	158	194		166	120	182	158	194		208	150	228	197	242	
2.5	D	131	173	173	227	279		315	415	415	545	669		248	327	327	429	527	
3.0	S	115	84	127	109	135		115	84	127	109	135		144	104	158	137	168	
3.0	D	76	100	100	131	161		183	240	240	315	387		144	189	189	248	305	
3.5	S	85	61	93	80	99		85	61	93	80	99		106	77	116	101	124	
3.5	D	48	63	63	83	102		115	151	151	198	244		91	119	119	156	192	
4.0	S	65	47	71	62	76		65	47	71	62	76		81	59	89	77	95	
4.0	D	32	42	42	55	68		77	101	101	133	163		61	80	80	105	129	
4.5	S	51	37	56	49	60		51	37	56	49	60		64	46	70	61	75	
4.5	D	23	30	30	39	48		54	71	71	93	115		43	56	56	74	90	
5.0	S	42	30	46	39	48		42	30	46	39	48		52	38	57	49	61	
5.0	D	16	22	22	28	35		39	52	52	68	84		31	41	41	54	66	
5.5	S	34	25	38	33	40		34	25	38	33	40		43	31	47	41	50	
5.5	D	12	16	16	21	26		30	39	39	51	63		23	31	31	40	49	
6.0	S		21	32	27	34		29	21	32	27	34		36	26	40	34	42	
6.0	D		13	13	16	20		23	30	30	39	48		18	24	24	31	38	
6.5	S				23	29		25	18	27	23	29		31	22	34	29	36	
6.5	D				13	16		18	24	24	31	38		14	19	19	24	30	
7.0	S				20	25		21	15	23	20	25		26	19	29	25	31	
7.0	D				10	13		14	19	19	25	30		11	15	15	20	24	
7.5	S					22		18	13	20	18	22			17	25	22	27	
7.5	D					10		12	15	15	20	25			12	12	16	20	
8.0	S								12	18	15	19					19	24	
8.0	D								13	13	17	20					13	16	

* Y.S. = Yield Strength

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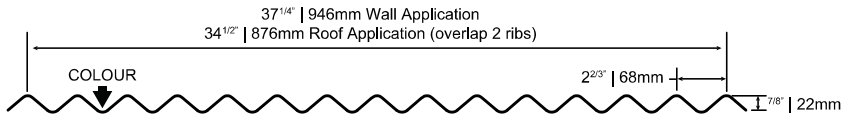
Load Table | Metric
7/8" Corrugated Cladding Profile

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 calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.

LIMIT STATES DESIGN



SECTION PROPERTIES | Per Metre of Width

Base Steel Thickness (mm)	Mass [Z275] (kg/m²)	Yield Stress (MPa)	Section Modulus		Deflection Moment of Inertia (x10⁶ mm⁴)	Specified Web Crippling Data			
			Midspan (x10³mm³)	Support (x10³mm³)		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi1 Interior (kN)
0.343	3.61	550	2.17	2.17	0.0241				
0.457	4.72	230	2.86	2.86	0.0317				
0.457	4.72	345	2.86	2.86	0.0317				
0.610	6.21	230	3.75	3.75	0.0416				
0.762	7.69	230	4.60	4.60	0.0512				

LLF = 1.40; IMPF = 0.75; NORMAL OCCUPANCY = 1.0

LOAD TABLE | Maximum Uniformly Distributed Specified Loads (kPa).

Span Length (m)		1-Span Base Steel Thickness (mm)						2-Span Base Steel Thickness (mm)						3-Span Base Steel Thickness (mm)					
		0.343	0.457	0.457	0.610	0.762		0.343	0.457	0.457	0.610	0.762		0.343	0.457	0.457	0.610	0.762	
Y.S.* (MPa)		550	230	345	230	230		550	230	345	230	230		550	230	345	230	230	
1.0	S	4.60	3.38	5.07	4.43	5.45		4.60	3.38	5.07	4.43	5.45		5.75	4.22	6.34	5.54	6.81	
1.0	D	2.78	3.67	3.67	4.81	5.91		6.68	8.80	8.80	11.5	14.2		5.26	6.93	6.93	9.09	11.2	
1.2	S	3.20	2.35	3.52	3.08	3.78		3.20	2.35	3.52	3.08	3.78		4.00	2.93	4.40	3.85	4.73	
1.2	D	1.61	2.12	2.12	2.78	3.42		3.87	5.09	5.09	6.68	8.21		3.05	4.01	4.01	5.26	6.46	
1.4	S	2.35	1.72	2.59	2.26	2.78		2.35	1.72	2.59	2.26	2.78		2.94	2.16	3.23	2.83	3.47	
1.4	D	1.01	1.34	1.34	1.75	2.15		2.44	3.21	3.21	4.20	5.17		1.92	2.53	2.53	3.31	4.07	
1.6	S	1.80	1.32	1.98	1.73	2.13		1.80	1.32	1.98	1.73	2.13		2.25	1.65	2.48	2.16	2.66	
1.6	D	0.68	0.90	0.90	1.17	1.44		1.63	2.15	2.15	2.82	3.46		1.28	1.69	1.69	2.22	2.73	
1.8	S		1.04	1.56	1.37	1.68		1.42	1.04	1.56	1.37	1.68		1.78	1.30	1.96	1.71	2.10	
1.8	D		0.63	0.63	0.82	1.01		1.15	1.51	1.51	1.98	2.43		0.90	1.19	1.19	1.56	1.91	
2.0	S				1.11	1.36		1.15	0.84	1.27	1.11	1.36		1.44	1.06	1.58	1.38	1.70	
2.0	D				0.60	0.74		0.84	1.10	1.10	1.44	1.77		0.66	0.87	0.87	1.14	1.40	
2.2	S					1.13		0.95	0.70	1.05	0.92	1.13			0.87	1.31	1.14	1.41	
2.2	D					0.55		0.63	0.83	0.83	1.08	1.33			0.65	0.65	0.85	1.05	
2.4	S								0.59	0.88	0.77	0.95			0.73	1.10	0.96	1.18	
2.4	D								0.64	0.64	0.83	1.03			0.50	0.50	0.66	0.81	
2.6	S									0.75	0.66	0.81					0.82	1.01	
2.6	D									0.50	0.66	0.81					0.52	0.64	
2.8	S										0.57	0.69						0.87	
2.8	D										0.53	0.65						0.51	

* Y.S. = Yield Strength

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