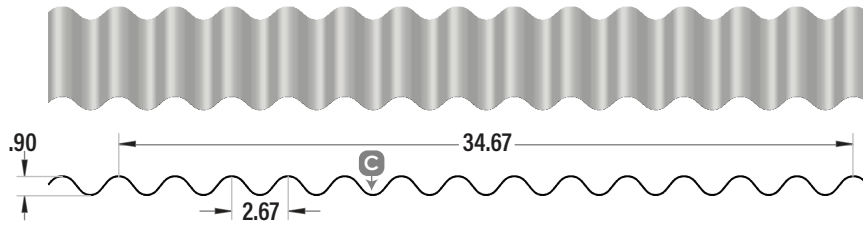
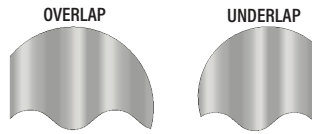




WF-7/8" CORRUGATED ROOF



All dimensions are in inches

SECTION PROPERTIES (PER FOOT OF WIDTH)

IMPERIAL	Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	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)
	0.018	0.913	33	0.0550	0.0550	0.0245				
	0.024	1.22	33	0.0729	0.0729	0.0328				
	0.030	1.53	33	0.0907	0.0907	0.0410				
	0.036	1.83	33	0.108	0.108	0.0493				
	0.048	2.45	33	0.143	0.143	0.0660				

Live load factor = 1.5; Importance factor = 0.90; Importance Category = 1.0

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (PSF)

SPAN LENGTH (ft)		1-SPAN					2-SPAN					3-SPAN				
		BASE STEEL THICKNESS (in.)					BASE STEEL THICKNESS (in.)					BASE STEEL THICKNESS (in.)				
		0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048
2.0	S	181	241	299			181	240	299			227	301	374		
	D	297	397	497			714	953	1193			562	751	940		
2.5	S	116	154	192			116	154	192			145	192	239		
	D	152	203	255			365	488	611			288	384	481		
3.0	S	81	107	133			81	107	133			101	134	166		
	D	88	118	147			211	282	354			167	222	278		
3.5	S	59	79	98			59	79	98			74	98	122		
	D	55	74	93			133	178	223			105	140	175		
4.0	S	45	60	75			45	60	75			57	75	94		
	D	37	50	62			89	119	149			70	94	117		
4.5	S	36	48	59			36	48	59			45	59	74		
	D	26	35	44			63	84	105			49	66	83		
5.0	S	29	38	48			29	38	48			36	48	60		
	D	19	25	32			46	61	76			36	48	60		
5.5	S	24	32	40			24	32	40			30	40	49		
	D	14	19	24			34	46	57			27	36	45		
6.0	S	20	27	33			20	27	33			25	33	42		
	D	11	15	18			26	35	44			21	28	35		
6.5	S	17	23	28			17	23	28			21	28	35		
	D	9	12	14			21	28	35			16	22	27		
7.0	S	15	20	24			15	20	24			18	25	31		
	D	7	9	12			17	22	28			13	18	22		
7.5	S	13	17	21			13	17	21			16	21	27		
	D	6	8	9			14	18	23			11	14	18		
8.0	S	11	15	19			11	15	19			14	19	23		
	D	5	6	8			11	15	19			9	12	15		
8.5	S	10	13	17			10	13	17			13	17	21		
	D	4	5	6			9	12	16			7	10	12		
9.0	S	9	12	15			9	12	15			11	15	18		
	D	3	4	5			8	10	13			6	8	10		

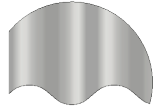
- Notes:**
- 1 Based on ASTM A 653 structural steel. Coating can also be AZ50.
 - 2 Values in row "S" are based on strength.
 - 3 Values in row "D" are based on deflection of L/180.
 - 4 For L/240, multiply values in row "D" by 0.75.
 - 5 Limit States Design principles were used in accordance with CSA S136-16.
 - 6 Prepared by Dr. R.M. Schuster, P. Eng., Distinguished Professor Emeritus, University of Waterloo.



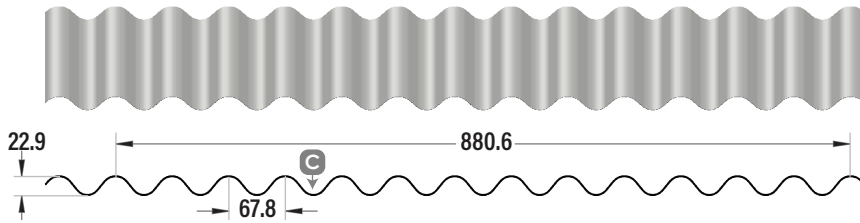
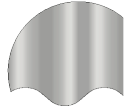


WF-7/8" CORRUGATED ROOF

OVERLAP



UNDERLAP



All dimensions are in millimeters

SECTION PROPERTIES (PER METRE OF WIDTH)

METRIC	Base Steel Thickness (mm)	Mass Z275 (kg/m ²)	Yield Stress (MPa)	Sec. Modulus		Deflection Moment of Inertia (x10 ⁶ mm ⁴)	Specified Web Crippling Data			
				Midspan	Support		P _{e1} End (kN)	P _{e2} End (kN)	P _{i1} Interior (kN)	P _{i2} Interior (kN)
				(x10 ³ mm ³)	(x10 ³ mm ³)					
	0.457	4.46	230	2.95	2.95	0.0335				
	0.610	5.95	230	3.92	3.92	0.0448				
	0.762	7.45	230	4.88	4.88	0.0560				
	0.914	8.95	230	5.82	5.82	0.0674				
	1.22	12.0	230	7.69	7.69	0.0901				

Live load factor = 1.5; Importance factor = 0.90; Importance Category = 1.0

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (kPa)

SPAN LENGTH (mm)		1-SPAN					2-SPAN					3-SPAN				
		BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)				
		0.457	0.610	0.762	0.914	1.22	0.457	0.610	0.762	0.914	1.22	0.457	0.610	0.762	0.914	1.22
1000	S	3.26	4.33	5.38			3.26	4.33	5.38			4.08	5.41	6.73		
	D	3.22	4.31	5.39			7.74	10.3	12.9			6.10	8.14	10.2		
1100	S	2.70	3.58	4.45			2.70	3.58	4.45			3.37	4.47	5.56		
	D	2.42	3.24	4.05			5.82	7.77	9.72			4.58	6.12	7.66		
1200	S	2.27	3.01	3.74			2.27	3.01	3.74			2.83	3.76	4.67		
	D	1.87	2.49	3.12			4.48	5.98	7.49			3.53	4.71	5.90		
1300	S	1.93	2.56	3.19			1.93	2.56	3.19			2.41	3.20	3.98		
	D	1.47	1.96	2.45			3.52	4.71	5.89			2.77	3.71	4.64		
1400	S	1.66	2.21	2.75			1.66	2.21	2.75			2.08	2.76	3.43		
	D	1.18	1.57	1.97			2.82	3.77	4.72			2.22	2.97	3.71		
1500	S	1.45	1.92	2.39			1.45	1.92	2.39			1.81	2.40	2.99		
	D	0.96	1.28	1.60			2.29	3.06	3.84			1.81	2.41	3.02		
1600	S	1.27	1.69	2.10			1.27	1.69	2.10			1.59	2.11	2.63		
	D	0.79	1.05	1.32			1.89	2.52	3.16			1.49	1.99	2.49		
1700	S	1.13	1.50	1.86			1.13	1.50	1.86			1.41	1.87	2.33		
	D	0.66	0.88	1.10			1.58	2.10	2.63			1.24	1.66	2.07		
1800	S	1.01	1.34	1.66			1.01	1.34	1.66			1.26	1.67	2.08		
	D	0.55	0.74	0.92			1.33	1.77	2.22			1.05	1.40	1.75		
1900	S	0.90	1.20	1.49			0.90	1.20	1.49			1.13	1.50	1.86		
	D	0.47	0.63	0.79			1.13	1.51	1.89			0.89	1.19	1.49		
2000	S	0.82	1.08	1.35			0.82	1.08	1.35			1.02	1.35	1.68		
	D	0.40	0.54	0.67			0.97	1.29	1.62			0.76	1.02	1.27		
2100	S	0.74	0.98	1.22			0.74	0.98	1.22			0.92	1.23	1.53		
	D	0.35	0.47	0.58			0.84	1.12	1.40			0.66	0.88	1.10		
2200	S	0.67	0.89	1.11			0.67	0.89	1.11			0.84	1.12	1.39		
	D	0.30	0.40	0.51			0.73	0.97	1.22			0.57	0.76	0.96		

Notes:

- 1 Based on ASTM A 653M structural steel. Coating can also be AZM150.
- 2 Values in row "S" are based on strength.
- 3 Values in row "D" are based on deflection of L/180.
- 4 For L/240, multiply values in row "D" by 0.75.
- 5 Limit States Design principles were used in accordance with CSA S136-16.
- 6 Prepared by Dr. R.M. Schuster, P. Eng., Distinguished Professor Emeritus, University of Waterloo.



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