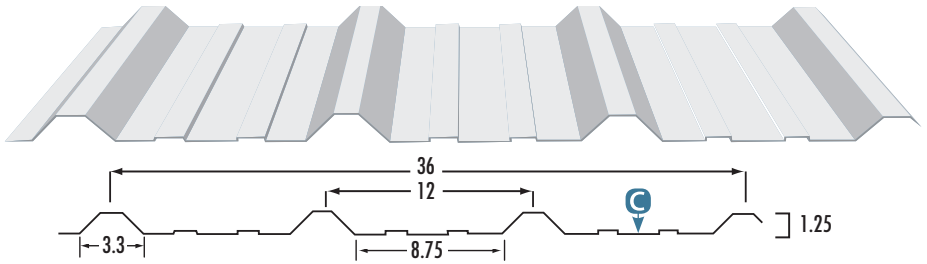




WF-12-36



C - Denotes Colored Side
All dimensions are in inches.

IMPERIAL	SECTION PROPERTIES (Per Foot of Width)									
	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)
	0.018	0.0195	0.856	0.0379	0.0316	0.0428	41.9	10.5	112	19.0
0.020	0.0215	0.945	0.0433	0.0366	0.0486	52.8	13.2	141	23.9	
0.024	0.0255	1.12	0.0545	0.0459	0.0584	78.6	19.6	208	35.4	

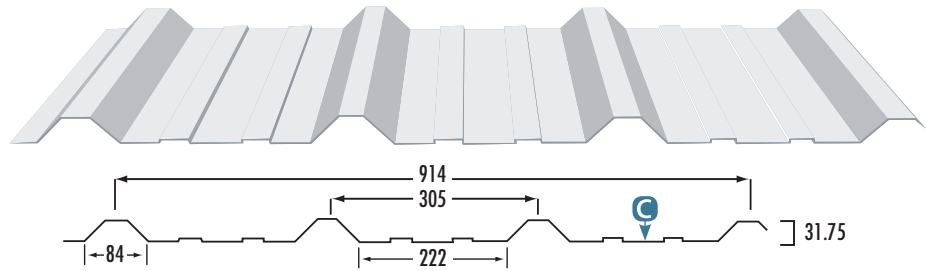
MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)													
SPAN LENGTH (ft)		1 - SPAN				2 - SPAN				3 - SPAN			
		BASE STEEL THICKNESS (inches)				BASE STEEL THICKNESS (inches)				BASE STEEL THICKNESS (inches)			
		0.018	0.020	0.024		0.018	0.020	0.024		0.018	0.020	0.024	
2.0	S	226	258	324		188	218	273		235	272	341	
	D	467	529	636		1120	1271	1527		882	1001	1203	
2.5	S	144	165	207		120	139	175		150	174	218	
	D	239	271	326		573	651	782		451	512	616	
3.0	S	100	115	144		83	97	121		104	121	152	
	D	138	157	189		332	377	453		261	296	356	
3.5	S	74	84	106		61	71	89		77	89	111	
	D	87	99	119		209	237	285		165	187	224	
4.0	S	56	64	81		47	54	68		59	68	85	
	D	58	66	80		140	159	191		110	125	150	
4.5	S	45	51	64		37	43	54		46	54	67	
	D	41	46	56		98	112	134		77	88	106	
5.0	S	36	41	52		30	35	44		38	44	55	
	D	30	34	41		72	81	98		56	64	77	
5.5	S	30	34	43		25	29	36		31	36	45	
	D	22	25	31		54	61	73		42	48	58	
6.0	S	25	29	36		21	24	30		26	30	38	
	D	17	20	24		41	47	57		33	37	45	
6.5	S	21	24	31		18	21	26		22	26	32	
	D	14	15	19		33	37	44		26	29	35	
7.0	S	18	21	26		15	18	22		19	22	28	
	D	11	12	15		26	30	36		21	23	28	
7.5	S	16	18	23		13	15	19		17	19	24	
	D	9	10	12		21	24	29		17	19	23	
8.0	S	14	16	20		12	14	17		15	17	21	
	D	7	8	10		17	20	24		14	16	19	

NOTES:



- Based on ASTM A 653M Grade 230 structural steel.
 - Values in row "S" are based on strength.
 - Values in row "D" are based on deflection of 1/180th span.
 - Web crippling not included in strength calculations. See Example.
- Limit States Design principles were used in accordance with CSA Standard S136-01
Load table prepared by Dr. R.M.Schuster P.Eng. University of Waterloo, Ontario, Canada.





C - Denotes Colored Side

All dimensions are in millimeters.

SECTION PROPERTIES (Per Metre of Width)

METRIC	Base Steel Thickness (mm)	Coated Steel Thickness (Z275) (mm)	Coated Mass (kg/m ²)	Sec. Modulus		Deflection Moment of Inertia (10 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)
				(10 ³ mm ³)	(10 ³ mm ³)					
0.457	0.497	4.18	2.04	1.70	0.0584	0.611	0.153	1.63	0.278	
0.508	0.548	4.61	2.33	1.97	0.0663	0.770	0.193	2.05	0.349	
0.610	0.650	5.48	2.93	2.47	0.0797	1.15	0.287	3.04	0.516	

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

SPAN LENGTH (m)		1 - SPAN			2 - SPAN			3 - SPAN		
		BASE STEEL THICKNESS (mm)			BASE STEEL THICKNESS (mm)			BASE STEEL THICKNESS (mm)		
		0.457	0.508	0.610	0.457	0.508	0.610	0.457	0.508	0.610
1.0	S	4.02	4.58	5.76	3.34	3.87	4.86	4.18	4.84	6.07
	D	5.06	5.74	6.90	12.2	13.8	16.6	9.56	10.9	13.0
1.2	S	2.79	3.18	4.00	2.32	2.69	3.37	2.90	3.36	4.22
	D	2.93	3.32	3.99	7.03	7.98	9.59	5.54	6.28	7.55
1.4	S	2.05	2.34	2.94	1.70	1.98	2.48	2.13	2.47	3.10
	D	1.84	2.09	2.52	4.43	5.02	6.04	3.49	3.96	4.75
1.6	S	1.57	1.79	2.25	1.31	1.51	1.90	1.63	1.89	2.37
	D	1.24	1.40	1.69	2.97	3.36	4.04	2.34	2.65	3.18
1.8	S	1.24	1.42	1.78	1.03	1.20	1.50	1.29	1.49	1.87
	D	0.87	0.98	1.18	2.08	2.36	2.84	1.64	1.86	2.24
2.0	S	1.00	1.15	1.44	0.84	0.97	1.21	1.04	1.21	1.52
	D	0.63	0.72	0.86	1.52	1.72	2.07	1.20	1.36	1.63
2.2	S	0.83	0.95	1.19	0.69	0.80	1.00	0.86	1.00	1.26
	D	0.48	0.54	0.65	1.14	1.29	1.56	0.90	1.02	1.23
2.4	S	0.70	0.80	1.00	0.58	0.67	0.84	0.73	0.84	1.05
	D	0.37	0.42	0.50	0.88	1.00	1.20	0.69	0.79	0.94
2.6	S	0.59	0.68	0.85	0.49	0.57	0.72	0.62	0.72	0.90
	D	0.29	0.33	0.39	0.69	0.78	0.94	0.54	0.62	0.74
2.8	S	0.51	0.58	0.74	0.43	0.49	0.62	0.53	0.62	0.77
	D	0.23	0.26	0.31	0.55	0.63	0.75	0.44	0.49	0.59
3.0	S	0.45	0.51	0.64	0.37	0.43	0.54	0.46	0.54	0.67
	D	0.19	0.21	0.26	0.45	0.51	0.61	0.35	0.40	0.48

NOTES: