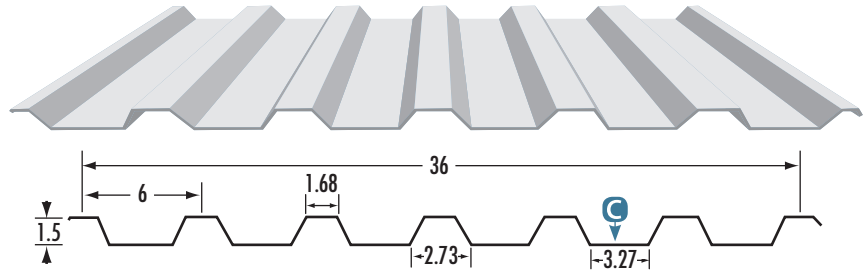




# WF 636 R Reversed Panel



**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. <sup>4</sup> )	Specified Web Crippling Data			
				Midspan (in. <sup>3</sup> )	Support (in. <sup>3</sup> )		P <sub>e1</sub> End (lb)	P <sub>e2</sub> End (lb)	P <sub>i1</sub> Interior (lb)	P <sub>i2</sub> Interior (lb)
	0.018	0.0195	1.03	0.0958	0.0917	0.102	58.5	14.6	140	23.7
0.024	0.0255	1.35	0.141	0.138	0.144	110	27.5	265	45.1	
0.030	0.0315	1.68	0.189	0.185	0.180	178	44.6	433	73.6	
0.036	0.0375	2.00	0.238	0.226	0.216	264	65.9	643	109	
0.048	0.0495	2.64	0.314	0.307	0.286	487	122	1192	203	

### 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	0.024	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
3.0	S	141	206	277	349	460	134	203	271	331	450	168	253	339	414	562
	D	331	466	582	697	925	793	1120	1397	1672	2220	625	882	1100	1317	1748
3.5	S	103	152	203	256	338	99	149	199	243	330	124	186	249	304	413
	D	208	294	366	439	583	500	705	879	1053	1398	393	555	693	829	1101
4.0	S	79	116	156	196	259	76	114	153	186	253	95	142	191	233	316
	D	139	197	245	294	390	335	472	589	706	937	264	372	464	556	738
4.5	S	62	92	123	155	204	60	90	121	147	200	75	113	151	184	250
	D	98	138	172	206	274	235	332	414	496	658	185	261	326	390	518
5.0	S	51	74	100	126	166	48	73	98	119	162	61	91	122	149	202
	D	71	101	126	151	200	171	242	302	361	480	135	190	238	284	378
5.5	S	42	61	82	104	137	40	60	81	98	134	50	75	101	123	167
	D	54	76	94	113	150	129	182	227	271	360	101	143	178	214	284
6.0	S	35	52	69	87	115	34	51	68	83	112	42	63	85	103	141
	D	41	58	73	87	116	99	140	175	209	278	78	110	137	165	219
6.5	S	30	44	59	74	98	29	43	58	70	96	36	54	72	88	120
	D	33	46	57	69	91	78	110	137	164	218	61	87	108	129	172
7.0	S	26	38	51	64	84	25	37	50	61	83	31	47	62	76	103
	D	26	37	46	55	73	62	88	110	132	175	49	69	87	104	138
7.5	S	22	33	44	56	74	22	32	43	53	72	27	41	54	66	90
	D	21	30	37	45	59	51	72	89	107	142	40	56	70	84	112
8.0	S	20	29	39	49	65	19	28	38	47	63	24	36	48	58	79
	D	17	25	31	37	49	42	59	74	88	117	33	46	58	69	92
8.5	S	18	26	34	43	57	17	25	34	41	56	21	32	42	52	70
	D	15	21	26	31	41	35	49	61	74	98	27	39	48	58	77
9.0	S	16	23	31	39	51	15	23	30	37	50	19	28	38	46	62
	D	12	17	22	26	34	29	41	52	62	82	23	33	41	49	65
9.5	S	14	21	28	35	46	13	20	27	33	45	17	25	34	41	56
	D	10	15	18	22	29	25	35	44	53	70	20	28	35	41	55
10.0	S	13	19	25	31	41	12	18	24	30	40	15	23	31	37	51
	D	9	13	16	19	25	21	30	38	45	60	17	24	30	36	47
10.5	S	11	17	23	28	38	11	17	22	27	37	14	21	28	34	46
	D	8	11	14	16	22	19	26	33	39	52	15	21	26	31	41
11.0	S	10	15	21	26	34	10	15	20	25	33	13	19	25	31	42
	D	7	9	12	14	19	16	23	28	34	45	13	18	22	27	35

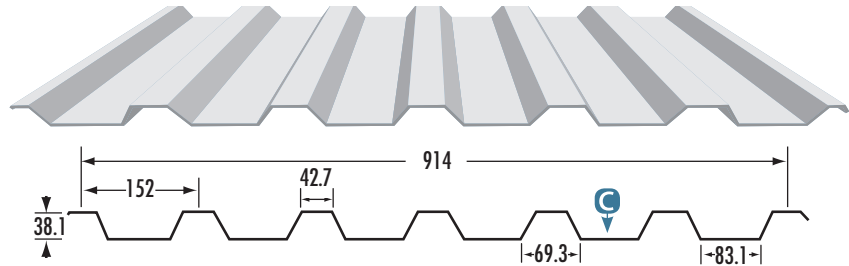
NOTES:



- 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.



# WF 636 R Reversed Panel



**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 <sup>2</sup> )	Sec. Modulus		Deflection Moment of Inertia (10 <sup>6</sup> mm <sup>4</sup> )	Specified Web Crippling Data			
				Midspan	Support		P <sub>e1</sub> End (kN)	P <sub>e2</sub> End (kN)	P <sub>i1</sub> Interior (kN)	P <sub>i2</sub> Interior (kN)
				(10 <sup>3</sup> mm <sup>3</sup> )	(10 <sup>3</sup> mm <sup>3</sup> )					
	0.457	0.497	5.03	5.14	4.92	0.140	0.863	0.216	2.06	0.350
	0.610	0.650	6.61	7.55	7.41	0.197	1.62	0.405	3.91	0.665
	0.762	0.802	8.19	10.1	9.95	0.246	2.63	0.658	6.38	1.09
	0.914	0.954	9.76	12.8	12.1	0.295	3.89	0.973	9.48	1.61
	1.22	1.26	12.9	16.9	16.5	0.391	7.18	1.80	17.6	2.99

### 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	0.610	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
1.0	S	5.68	8.33	11.2	14.1	18.6	5.43	8.18	11.0	13.4	18.2	6.79	10.2	13.7	16.7	22.8
	D	12.1	17.1	21.3	25.5	33.9	29.0	41.0	51.1	61.2	81.3	22.9	32.3	40.3	48.2	64.0
1.2	S	3.94	5.79	7.77	9.80	12.9	3.77	5.68	7.63	9.30	12.6	4.71	7.10	9.53	11.6	15.8
	D	7.00	9.88	12.3	14.8	19.6	16.8	23.7	29.6	35.4	47.0	13.2	18.7	23.3	27.9	37.0
1.4	S	2.90	4.25	5.71	7.20	9.49	2.77	4.17	5.60	6.83	9.28	3.46	5.22	7.00	8.54	11.6
	D	4.41	6.22	7.76	9.30	12.3	10.6	14.9	18.6	22.3	29.6	8.33	11.8	14.7	17.6	23.3
1.6	S	2.22	3.25	4.37	5.51	7.27	2.12	3.20	4.29	5.23	7.11	2.65	3.99	5.36	6.54	8.89
	D	2.95	4.17	5.20	6.23	8.27	7.08	10.0	12.5	15.0	19.8	5.58	7.88	9.83	11.8	15.6
1.8	S	1.75	2.57	3.45	4.36	5.74	1.68	2.52	3.39	4.13	5.62	2.10	3.16	4.24	5.17	7.02
	D	2.07	2.93	3.65	4.37	5.81	4.97	7.03	8.77	10.5	13.9	3.92	5.53	6.90	8.27	11.0
2.0	S	1.42	2.08	2.80	3.53	4.65	1.36	2.04	2.75	3.35	4.55	1.70	2.56	3.43	4.18	5.69
	D	1.51	2.13	2.66	3.19	4.23	3.63	5.12	6.39	7.65	10.2	2.86	4.03	5.03	6.03	8.00
2.2	S	1.17	1.72	2.31	2.92	3.84	1.12	1.69	2.27	2.77	3.76	1.40	2.11	2.84	3.46	4.70
	D	1.14	1.60	2.00	2.40	3.18	2.72	3.85	4.80	5.75	7.63	2.15	3.03	3.78	4.53	6.01
2.4	S	0.99	1.45	1.94	2.45	3.23	0.94	1.42	1.91	2.32	3.16	1.18	1.78	2.38	2.91	3.95
	D	0.87	1.24	1.54	1.85	2.45	2.10	2.96	3.70	4.43	5.88	1.65	2.33	2.91	3.49	4.63
2.6	S	0.84	1.23	1.65	2.09	2.75	0.80	1.21	1.62	1.98	2.69	1.00	1.51	2.03	2.48	3.37
	D	0.69	0.97	1.21	1.45	1.93	1.65	2.33	2.91	3.48	4.62	1.30	1.84	2.29	2.74	3.64
2.8	S	0.72	1.06	1.43	1.80	2.37	0.69	1.04	1.40	1.71	2.32	0.87	1.30	1.75	2.13	2.90
	D	0.55	0.78	0.97	1.16	1.54	1.32	1.87	2.33	2.79	3.70	1.04	1.47	1.83	2.20	2.92
3.0	S	0.63	0.93	1.24	1.57	2.07	0.60	0.91	1.22	1.49	2.02	0.75	1.14	1.53	1.86	2.53
	D	0.45	0.63	0.79	0.94	1.25	1.07	1.52	1.89	2.27	3.01	0.85	1.20	1.49	1.79	2.37
3.2	S	0.55	0.81	1.09	1.38	1.82	0.53	0.80	1.07	1.31	1.78	0.66	1.00	1.34	1.63	2.22
	D	0.37	0.52	0.65	0.78	1.03	0.89	1.25	1.56	1.87	2.48	0.70	0.98	1.23	1.47	1.95
3.4	S	0.49	0.72	0.97	1.22	1.61	0.47	0.71	0.95	1.16	1.57	0.59	0.88	1.19	1.45	1.97
	D	0.31	0.43	0.54	0.65	0.86	0.74	1.04	1.30	1.56	2.07	0.58	0.82	1.02	1.23	1.63
3.6	S	0.44	0.64	0.86	1.09	1.44	0.42	0.63	0.85	1.03	1.40	0.52	0.79	1.06	1.29	1.76
	D	0.26	0.37	0.46	0.55	0.73	0.62	0.88	1.10	1.31	1.74	0.49	0.69	0.86	1.03	1.37
3.8	S	0.39	0.58	0.77	0.98	1.29	0.38	0.57	0.76	0.93	1.26	0.47	0.71	0.95	1.16	1.58
	D	0.22	0.31	0.39	0.46	0.62	0.53	0.75	0.93	1.12	1.48	0.42	0.59	0.73	0.88	1.17
4.0	S	0.35	0.52	0.70	0.88	1.16	0.34	0.51	0.69	0.84	1.14	0.42	0.64	0.86	1.05	1.42
	D	0.19	0.27	0.33	0.40	0.53	0.45	0.64	0.80	0.96	1.27	0.36	0.50	0.63	0.75	1.00

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.

