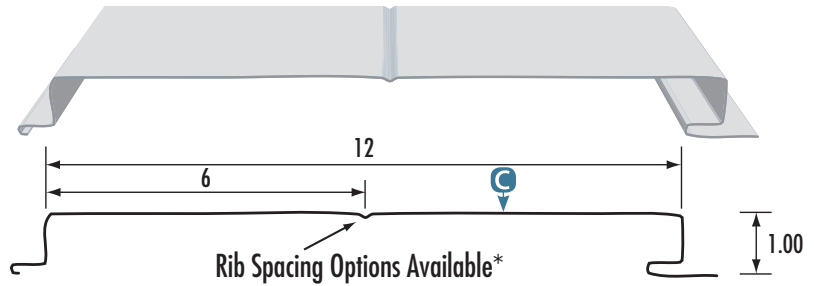




WF HF 12



C - Denotes Colored Side

All dimensions are in inches.

* Rib spacing of 4", 6" or fully striated available.

SECTION PROPERTIES (Per Foot of Width)

IMPERIAL	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	Support		P _{e1} End (lb)	P _{e2} End (lb)	P _{i1} Interior (lb)	P _{i2} Interior (lb)
				(in. ³)	(in. ³)					
	0.0180	0.0195	1.04	0.0243	0.0408	0.0154	69.8	17.4	132	22.5
	0.0240	0.0255	1.36	0.0382	0.0537	0.0227	128	32.1	243	41.3
	0.0300	0.0315	1.69	0.0547	0.0663	0.0317	205	51.3	388	66.0
	0.0360	0.0375	2.02	0.0684	0.0785	0.0416	301	75.2	568	96.5

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	0.018	0.024	0.030	0.036	0.018	0.024	0.030	0.036
3.0	S	36	56	80	100	60	79	97	115	56	88	121	144
	D	99	147	205	269	238	352	492	645	188	278	388	508
3.5	S	26	41	59	74	44	58	71	85	41	64	89	106
	D	62	92	129	169	150	222	310	406	118	175	244	320
4.0	S	20	32	45	56	34	44	55	65	31	49	68	81
	D	42	62	87	113	100	149	208	272	79	117	164	214
4.5	S	16	25	36	45	27	35	43	51	25	39	54	64
	D	29	44	61	80	71	104	146	191	56	82	115	151
5.0	S	13	20	29	36	22	28	35	41	20	32	44	52
	D	21	32	44	58	51	76	106	139	41	60	84	110
5.5	S	11	17	24	30	18	23	29	34	17	26	36	43
	D	16	24	33	44	39	57	80	105	30	45	63	82
6.0	S	9	14	20	25	15	20	24	29	14	22	30	36
	D	12	18	26	34	30	44	62	81	23	35	48	64
6.5	S	8	12	17	21	13	17	21	25	12	19	26	31
	D	10	14	20	26	23	35	48	63	18	27	38	50
7.0	S	7	10	15	18	11	14	18	21	10	16	22	26
	D	8	12	16	21	19	28	39	51	15	22	31	40
7.5	S	6	9	13	16	10	13	16	18	9	14	19	23
	D	6	9	13	17	15	23	32	41	12	18	25	33
8.0	S	5	8	11	14	8	11	14	16	8	12	17	20
	D	5	8	11	14	13	19	26	34	10	15	20	27
8.5	S	4	7	10	12	7	10	12	14	7	11	15	18
	D	4	6	9	12	10	15	22	28	8	12	17	22
9.0	S	4	6	9	11	7	9	11	13	6	10	13	16
	D	4	5	8	10	9	13	18	24	7	10	14	19
9.5	S	4	6	8	10	6	8	10	11	6	9	12	14
	D	3	5	6	8	7	11	16	20	6	9	12	16
10.0	S	3	5	7	9	5	7	9	10	5	8	11	13
	D	3	4	6	7	6	10	13	17	5	7	10	14

NOTES:

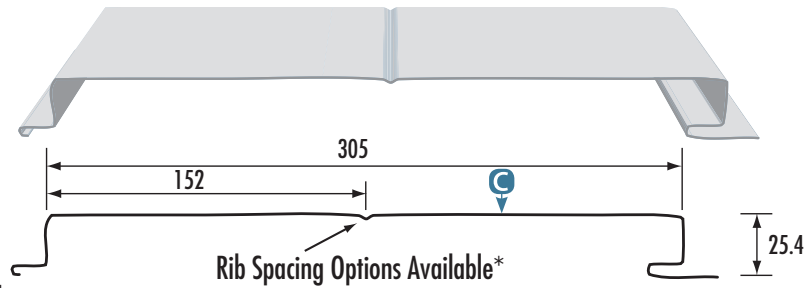


- Based on ASTM A 653M Grade 230 structural steel.
 - Values in row "S" are based on strength.
 - Values in row "D" are based on deflection of 1/180th span.
 - Web crippling not included in strength calculations. See Example.
- Limit States Design principles were used in accordance with CSA Standard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





WF HF 12



C - Denotes Colored Side

All dimensions are in millimeters.

* Rib spacing of 101mm, 152mm or fully striated available.

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 (10 ³ mm ³)	Support (10 ³ mm ³)		P _{e1} End (kN)	P _{e2} End (kN)	P _{i1} Interior (kN)	P _{i2} Interior (kN)				
											0.457	0.497	5.06	1.30
				0.610	0.650		6.66	2.05	2.89	0.0310	1.09	0.761	3.58	0.609
0.762	0.802	8.25	2.93	3.56	0.0432	1.80	1.26	5.72	0.973					
0.914	0.954	9.85	3.67	4.22	0.0566	2.70	1.89	8.38	1.42					

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	0.457	0.610	0.762	0.914	0.457	0.610	0.762	0.914
1.0	S	1.44	2.26	3.23	4.05	2.42	3.19	3.93	4.66	2.25	3.53	4.92	5.82
	D	3.62	5.36	7.49	9.81	8.70	12.9	18.0	23.6	6.85	10.1	14.2	18.5
1.2	S	1.00	1.57	2.25	2.81	1.68	2.21	2.73	3.23	1.56	2.45	3.41	4.04
	D	2.10	3.10	4.33	5.68	5.03	7.45	10.4	13.6	3.96	5.87	8.19	10.7
1.4	S	0.73	1.15	1.65	2.07	1.24	1.63	2.01	2.38	1.15	1.80	2.51	2.97
	D	1.32	1.95	2.73	3.58	3.17	4.69	6.55	8.58	2.50	3.69	5.16	6.76
1.6	S	0.56	0.88	1.26	1.58	0.95	1.25	1.54	1.82	0.88	1.38	1.92	2.27
	D	0.88	1.31	1.83	2.40	2.12	3.14	4.39	5.75	1.67	2.48	3.45	4.53
1.8	S	0.44	0.70	1.00	1.25	0.75	0.98	1.21	1.44	0.69	1.09	1.52	1.80
	D	0.62	0.92	1.28	1.68	1.49	2.21	3.08	4.04	1.17	1.74	2.43	3.18
2.0	S	0.36	0.56	0.81	1.01	0.61	0.80	0.98	1.16	0.56	0.88	1.23	1.46
	D	0.45	0.67	0.94	1.23	1.09	1.61	2.25	2.94	0.86	1.27	1.77	2.32
2.2	S	0.30	0.47	0.67	0.84	0.50	0.66	0.81	0.96	0.46	0.73	1.02	1.20
	D	0.34	0.50	0.70	0.92	0.82	1.21	1.69	2.21	0.64	0.95	1.33	1.74
2.4	S	0.25	0.39	0.56	0.70	0.42	0.55	0.68	0.81	0.39	0.61	0.85	1.01
	D	0.26	0.39	0.54	0.71	0.63	0.93	1.30	1.70	0.50	0.73	1.02	1.34
2.6	S	0.21	0.33	0.48	0.60	0.36	0.47	0.58	0.69	0.33	0.52	0.73	0.86
	D	0.21	0.31	0.43	0.56	0.49	0.73	1.02	1.34	0.39	0.58	0.80	1.06
2.8	S	0.18	0.29	0.41	0.52	0.31	0.41	0.50	0.59	0.29	0.45	0.63	0.74
	D	0.17	0.24	0.34	0.45	0.40	0.59	0.82	1.07	0.31	0.46	0.64	0.84
3.0	S	0.16	0.25	0.36	0.45	0.27	0.35	0.44	0.52	0.25	0.39	0.55	0.65
	D	0.13	0.20	0.28	0.36	0.32	0.48	0.67	0.87	0.25	0.38	0.52	0.69

NOTES:



1. Based on ASTM A 653M Grade 230 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
Load table prepared by Dr. R.M.Schuster P.Eng. University of Waterloo, Ontario, Canada.

