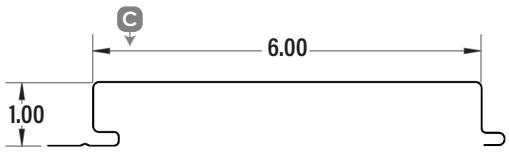
WF-HF-6 WALL



All dimensions are in inches

SECTION PROPERTIES (PER FOOT OF WIDTH)

	Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Sec. Modulus Midspan (in^3)	Sec. Modulus Support (in^3)	Deflection Moment of Inertia (in^4)	Specified Web Crippling Data P_{e1} End (lb)	P_{e2} End (lb)	P_{i1} Interior (lb)	P_{i2} Interior (lb)
IMPERIAL	0.0180	1.28	33	0.0485	0.0815	0.0310	156	39.0	310	52.7
	0.0240	1.69	33	0.0760	0.107	0.0458	287	71.7	565	96.0
	0.0300	2.09	33	0.108	0.132	0.0631	458	115	897	152
	0.0360	2.49	33	0.140	0.157	0.0822	671	168	1306	222

Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (PSF)

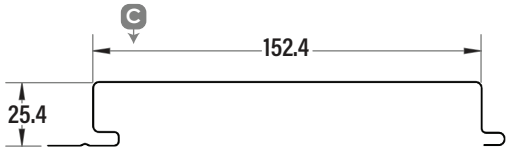
SPAN LENGTH (ft)		1-SPAN BASE STEEL THICKNESS (in.)					2-SPAN BASE STEEL THICKNESS (in.)					3-SPAN BASE STEEL THICKNESS (in.)				
		0.024	0.030				0.024	0.030				0.024	0.030			
3.0	S	119	170				168	208				187	260			
	D	395	543				948	1304				746	1027			
3.5	S	88	125				124	153				137	191			
	D	249	342				597	821				470	647			
4.0	S	67	96				95	117				105	146			
	D	167	229				400	550				315	433			
4.5	S	53	76				75	92				83	115			
	D	117	161				281	386				221	304			
5.0	S	43	61				61	75				67	93			
	D	85	117				205	282				161	222			
5.5	S	36	51				50	62				56	77			
	D	64	88				154	212				121	167			
6.0	S	30	43				42	52				47	65			
	D	49	68				118	163				93	128			
6.5	S	25	36				36	44				40	55			
	D	39	53				93	128				73	101			
7.0	S	22	31				31	38				34	48			
	D	31	43				75	103				59	81			
7.5	S	19	27				27	33				30	42			
	D	25	35				61	83				48	66			
8.0	S	17	24				24	29				26	37			
	D	21	29				50	69				39	54			

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/90.
4. For L/180, multiply values in row "D" by 0.50.
5. Web crippling not included in strength calculations. See Example.
6. Limit States Design principles were used in accordance with CSA S136-16.
7. Prepared by Dr. R.M. Schuster, P. Eng., Distinguished Professor Emeritus, University of Waterloo.

CSSBI Member
Canadian Sheet Steel Building Institute
A division of the Canadian Institute of Steel Construction

WF-HF-6 WALL



All dimensions are in millimeters

SECTION PROPERTIES (PER METRE OF WIDTH)

	Base Steel Thickness (mm)	Mass Z275 (kg/m^2)	Yield Stress (MPa)	Sec. Modulus Midspan ($x10^3$ mm^3)	Sec. Modulus Support ($x10^3$ mm^3)	Deflection Moment of Inertia ($x10^6 mm^4$)	Specified Web Crippling Data P_{e1} End (kN)	P_{e2} End (kN)	P_{i1} Interior (kN)	P_{i2} Interior (kN)
METRIC	0.457	6.27	230	2.60	4.38	0.0422	2.30	0.576	4.58	0.778
	0.610	8.25	230	4.07	5.76	0.0624	4.23	1.06	8.33	1.42
	0.762	10.2	230	5.81	7.11	0.0859	6.76	1.69	13.2	2.25
	0.914	12.2	230	7.52	8.42	0.112	9.89	2.47	19.3	3.28

Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (kPa)

SPAN LENGTH (mm)		1-SPAN BASE STEEL THICKNESS (mm)					2-SPAN BASE STEEL THICKNESS (mm)					3-SPAN BASE STEEL THICKNESS (mm)				
		0.610	0.762				0.610	0.762				0.610	0.762			
1000	S	4.82	6.87				6.82	8.41				7.53	10.5			
	D	14.4	19.8				34.6	47.6				27.3	37.5			
1200	S	3.35	4.77				4.73	5.84				5.23	7.30			
	D	8.35	11.5				20.0	27.5				15.8	21.7			
1400	S	2.46	3.50				3.48	4.29				3.84	5.36			
	D	5.26	7.23				12.6	17.4				9.93	13.7			
1600	S	1.88	2.68				2.66	3.28				2.94	4.11			
	D	3.52	4.84				8.45	11.6				6.66	9.15			
1800	S	1.49	2.12				2.10	2.60				2.32	3.24			
	D	2.47	3.40				5.94	8.16				4.67	6.43			
2000	S	1.20	1.72				1.70	2.10				1.88	2.63			
	D	1.80	2.48				4.33	5.95				3.41	4.69			
2200	S	1.00	1.42				1.41	1.74				1.56	2.17			
	D	1.35	1.86				3.25	4.47				2.56	3.52			
2400	S	0.84	1.19				1.18	1.46				1.31	1.82			
	D	1.04	1.43				2.50	3.44				1.97	2.71			
2600	S	0.71	1.02				1.01	1.24				1.11	1.56			
	D	0.82	1.13				1.97	2.71				1.55	2.13			
2800	S	0.61	0.88				0.87	1.07				0.96	1.34			
	D	0.66	0.90				1.58	2.17				1.24	1.71			
3000	S	0.54	0.76				0.76	0.93				0.84	1.17			
	D	0.53	0.73				1.28	1.76				1.01	1.39			

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/90.
4. For L/180, multiply values in row "D" by 0.50.
5. Web crippling not included in strength calculations. See Example.
6. Limit States Design principles were used in accordance with CSA S136-16.
7. Prepared by Dr. R.M. Schuster, P. Eng., Distinguished Professor Emeritus, University of Waterloo.

CSSBI Member
Canadian Sheet Steel Building Institute
A division of the Canadian Institute of Steel Construction