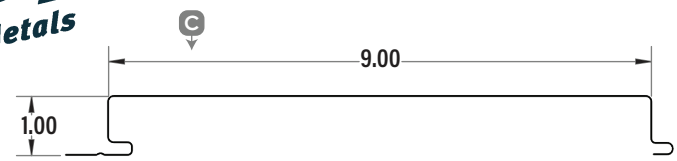
WF-HF-9 WALL



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	1.12	33	0.0326	0.0556	0.0208	104	26.0	207	35.2
	0.0240	1.47	33	0.0513	0.0732	0.0309	191	47.8	377	64.0
	0.0300	1.82	33	0.0734	0.0904	0.0428	306	76.4	598	102
	0.0360	2.17	33	0.0938	0.107	0.0561	447	112	871	148

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	81	115				115	142				126	177			
	D	266	369				638	886				503	698			
3.5	S	59	85				85	104				92	130			
	D	167	232				402	558				316	439			
4.0	S	45	65				65	80				71	100			
	D	112	156				269	374				212	294			
4.5	S	36	51				51	63				56	79			
	D	79	109				189	263				149	207			
5.0	S	29	42				41	51				45	64			
	D	57	80				138	191				109	151			
5.5	S	24	34				34	42				37	53			
	D	43	60				104	144				82	113			
6.0	S	20	29				29	35				31	44			
	D	33	46				80	111				63	87			
6.5	S	17	25				25	30				27	38			
	D	26	36				63	87				49	69			
7.0	S	15	21				21	26				23	33			
	D	21	29				50	70				40	55			
7.5	S	13	18				18	23				20	28			
	D	17	24				41	57				32	45			
8.0	S	11	16				16	20				18	25			
	D	14	19				34	47				27	37			

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.

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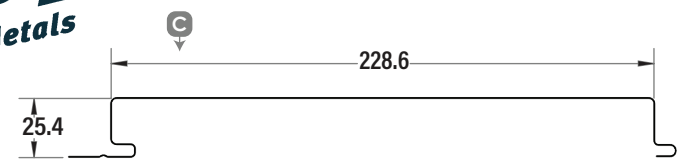
WF-HF-9 WALL



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 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)
	0.457	5.47	230	1.75	2.99	0.0284	1.54	0.384	3.05	0.519
	0.610	7.19	230	2.75	3.94	0.0421	2.82	0.705	5.56	0.944
	0.762	8.89	230	3.93	4.86	0.0583	4.51	1.13	8.82	1.50
	0.914	10.6	230	5.04	5.75	0.0764	6.60	1.65	12.8	2.18

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	3.25	4.65				4.66	5.75				5.08	7.18			
	D	9.71	13.5				23.3	32.3				18.4	25.5			
1200	S	2.26	3.23				3.23	3.99				3.53	4.99			
	D	5.62	7.80				13.5	18.7				10.6	14.7			
1400	S	1.66	2.37				2.38	2.93				2.59	3.66			
	D	3.54	4.91				8.49	11.8				6.69	9.28			
1600	S	1.27	1.82				1.82	2.24				1.98	2.81			
	D	2.37	3.29				5.69	7.89				4.48	6.22			
1800	S	1.00	1.44				1.44	1.77				1.57	2.22			
	D	1.67	2.31				4.00	5.54				3.15	4.37			
2000	S	0.81	1.16				1.16	1.44				1.27	1.80			
	D	1.21	1.68				2.91	4.04				2.29	3.18			
2200	S	0.67	0.96				0.96	1.19				1.05	1.48			
	D	0.91	1.27				2.19	3.04				1.72	2.39			
2400	S	0.56	0.81				0.81	1.00				0.88	1.25			
	D	0.70	0.97				1.69	2.34				1.33	1.84			
2600	S	0.48	0.69				0.69	0.85				0.75	1.06			
	D	0.55	0.77				1.33	1.84				1.04	1.45			
2800	S	0.41	0.59				0.59	0.73				0.65	0.92			
	D	0.44	0.61				1.06	1.47				0.84	1.16			
3000	S	0.36	0.52				0.52	0.64				0.56	0.80			
	D	0.36	0.50				0.86	1.20				0.68	0.94			

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.
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