

Wall Cladding

HF-12F and HF-12NF



Section Properties

(Per Foot of Width)

Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia Mid Span (in ⁴)	Specified Web Crippling Data (lb)			
			Mid Span (in ³)	Support (in ³)		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.030	1.87	33	0.0903	0.132	0.0817	195	48.7	376	63.9
0.036	2.23	33	0.120	0.158	0.106	287	71.8	553	94.0
0.048	2.96	33	0.184	0.210	0.163	527	132	1011	172

Load Table

Live Load Factor = 1.4; Importance Factor (I_{W-SLS}) = 0.75; Importance Factor (I_{W-ULS}) = 1.0

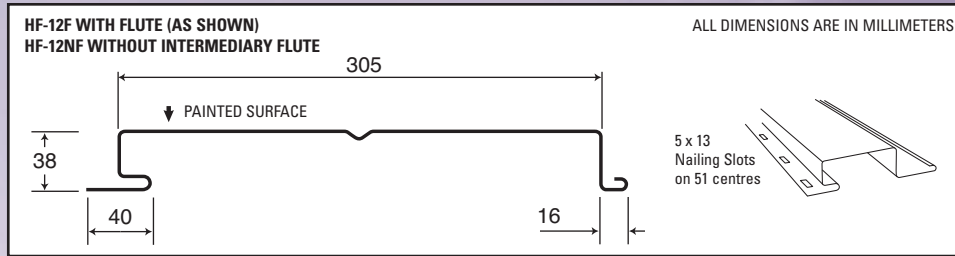
Maximum Specified Uniformly Distributed Loads in psf

Span (ft.)		1-Span Base Steel Thickness (in.)				2-Span Base Steel Thickness (in.)				3-Span Base Steel Thickness (in.)			
		0.030	0.036	0.048		0.030	0.036	0.048		0.030	0.036	0.048	
4'-0"	S	80	106	163		117	140	185		125	166	232	
	D	149	192	296		356	461	709		281	363	559	
4'-6"	S	63	84	128		92	110	146		99	131	183	
	D	104	135	208		250	324	498		197	255	392	
5'-0"	S	51	68	104		75	89	119		80	106	148	
	D	76	98	151		182	236	363		144	186	286	
5'-6"	S	42	56	86		62	74	98		66	88	123	
	D	57	74	114		137	177	273		108	140	215	
6'-0"	S	35	47	72		52	62	82		55	74	103	
	D	44	57	88		106	137	210		83	108	165	
6'-6"	S	30	40	62		44	53	70		47	63	88	
	D	35	45	69		83	107	165		65	85	130	
7'-0"	S	26	35	53		38	46	61		41	54	76	
	D	28	36	55		67	86	132		52	68	104	
7'-6"	S	23	30	46		33	40	53		35	47	66	
	D	23	29	45		54	70	108		43	55	85	
8'-0"	S	20	27	41		29	35	46		31	42	58	
	D	19	24	37		45	58	89		35	45	70	
8'-6"	S	18	24	36		26	31	41		28	37	51	
	D	15	20	31		37	48	74		29	38	58	
9'-0"	S	16	21	32		23	28	37		25	33	46	
	D	13	17	26		31	40	62		25	32	49	

Notes:

- Steel conforms to ASTM A653.
- Section properties are in accordance with CSA-S136-07.
- Values in row "S" are based on strength.
- Values in row "D" are based on a deflection limit of 1/180 of the span.
- Web crippling not included in strength values. See example calculation in notes to designer.
- Oil canning may be present due to various factors. Oil canning is not a valid reason for rejection of this product.
- Contact the sales department for stocked colours and gauges.
- The load table contained on this data sheet was prepared by Dr. R.M. Schuster P.Eng. Professor Emeritus of Structural Engineering, University of Waterloo, Ontario, Canada.





Section Properties

(Per Metre of Width)

Base Steel Thickness	Mass Z275	Yield Stress	Section Modulus		Deflection	Specified Web Crippling Data (kN)			
(mm)	(kg/m ²)	(MPa)	Mid Span (x 10 ³ mm ³)	Support (x 10 ³ mm ³)	Moment of Inertia Mid Span (x 10 ⁶ mm ⁴)	End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.762	8.85	230	4.84	7.10	0.111	2.87	0.718	5.55	0.943
0.914	10.6	230	6.45	8.50	0.144	4.24	1.06	8.16	1.39
1.22	14.2	230	9.88	11.3	0.221	7.78	1.94	14.9	2.54

Notes:

- Steel conforms to ASTM A653M.
- Section properties are in accordance with CSA-S136-07.
- Values in row "S" are based on strength.
- Values in row "D" are based on a deflection limit of 1/180 of the span.
- Web crippling not included in strength values. See example calculation in notes to designer.
- Oil canning may be present due to various factors. Oil canning is not a valid reason for rejection of this product.
- Contact the sales department for stocked colours and gauges.
- The load table contained on this data sheet was prepared by Dr. R.M. Schuster P.Eng. Professor Emeritus of Structural Engineering, University of Waterloo, Ontario, Canada.

Live Load Factor = 1.4; Importance Factor (I_{W-SLS}) = 0.75; Importance Factor (I_{W-ULS}) = 1.0

Load Table

Maximum Specified Uniformly Distributed Loads in kPa

Span (mm)		1-Span Base Steel Thickness (mm)					2-Span Base Steel Thickness (mm)					3-Span Base Steel Thickness (mm)				
		0.762	0.914	1.22			0.762	0.914	1.22			0.762	0.914	1.22		
1200	S	3.97	5.30	8.12			5.83	6.98	9.26			6.21	8.28	11.6		
	D	7.44	9.62	14.8			17.9	23.1	35.5			14.1	18.2	28.0		
1400	S	2.92	3.89	5.96			4.28	5.13	6.80			4.56	6.08	8.50		
	D	4.69	6.06	9.32			11.3	14.5	22.4			8.86	11.5	17.6		
1500	S	2.54	3.39	5.20			3.73	4.47	5.93			3.97	5.30	7.41		
	D	3.81	4.93	7.57			9.14	11.8	18.2			7.20	9.31	14.3		
1600	S	2.24	2.98	4.57			3.28	3.93	5.21			3.49	4.66	6.51		
	D	3.14	4.06	6.24			7.53	9.74	15.0			5.93	7.67	11.8		
1800	S	1.77	2.36	3.61			2.59	3.10	4.12			2.76	3.68	5.14		
	D	2.20	2.85	4.38			5.29	6.84	10.5			4.17	5.39	8.29		
2000	S	1.43	1.91	2.92			2.10	2.51	3.33			2.24	2.98	4.17		
	D	1.61	2.08	3.20			3.86	4.99	7.67			3.04	3.93	6.04		
2200	S	1.18	1.58	2.42			1.74	2.08	2.76			1.85	2.46	3.44		
	D	1.21	1.56	2.40			2.90	3.75	5.76			2.28	2.95	4.54		
2400	S	0.99	1.33	2.03			1.46	1.75	2.32			1.55	2.07	2.89		
	D	0.93	1.20	1.85			2.23	2.89	4.44			1.76	2.27	3.50		
2500	S	0.92	1.22	1.87			1.34	1.61	2.13			1.43	1.91	2.67		
	D	0.82	1.06	1.64			1.98	2.55	3.93			1.56	2.01	3.09		
2600	S	0.85	1.13	1.73			1.24	1.49	1.97			1.32	1.76	2.47		
	D	0.73	0.95	1.45			1.76	2.27	3.49			1.38	1.79	2.75		
2800	S	0.73	0.97	1.49			1.07	1.28	1.70			1.14	1.52	2.13		
	D	0.59	0.76	1.16			1.41	1.82	2.80			1.11	1.43	2.20		

