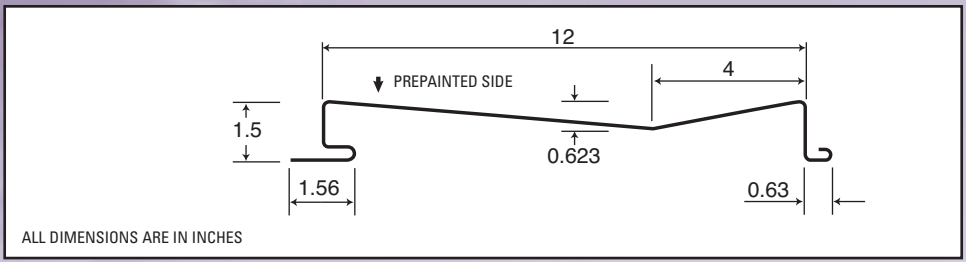


Section Properties

(Per Foot of Width)

Base Steel Thickness	Weight G90	Yield Stress	Section Modulus		Deflection Moment of Inertia	Specified Web Crippling Data (lb)			
			Mid Span	Support		End	End	Interior	Interior
(in.)	(psf)	(ksi)	(in^3)	(in^3)	Mid Span (in^4)	P_{e1}	P_{e2}	P_{i1}	P_{i2}
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 ($I_{W\text{-}SLS}$) = 0.75; Importance Factor ($I_{W\text{-}ULS}$) = 1.0

Maximum Specified Uniformly Distributed Loads in psf

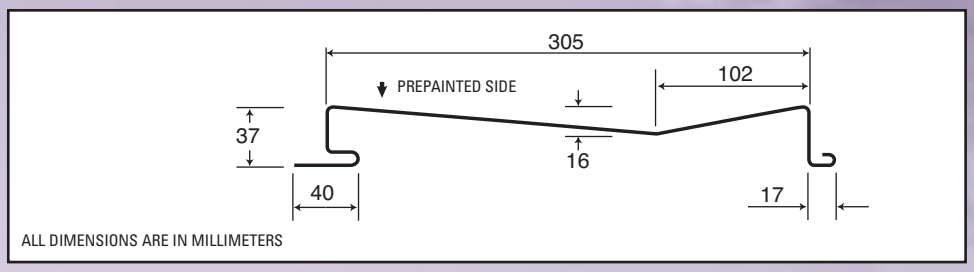
Span		1-Span Base Steel Thickness (in.)					2-Span Base Steel Thickness (in.)					3-Span Base Steel Thickness (in.)				
(ft.)		0.030	0.036	0.048			0.030	0.036	0.048			0.030	0.036	0.048		
4′-0″	S	80	106	163			117	140	185			125	166	232		
	D	149	192	296			356	461	709			281	363	559		
4′-6″	S	63	84	128			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:

1. Steel conforms to ASTM A653.
2. Section properties are in accordance with CSA-S136-07.
3. Values in row "S" are based on strength.
4. Values in row "D" are based on a deflection limit of 1/180 of the span.
5. Web crippling not included in strength values. See example calculation in notes to designer.
6. Oil canning may be present due to various factors. Oil canning is not a valid reason for rejection of this product.
7. Contact the sales department for stocked colours and gauges.
8. 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.

METRIC

HV-12 Wall Cladding



Section Properties

(Per Metre of Width)

Base Steel Thickness	Mass Z275	Yield Stress	Section Modulus		Deflection Moment of Inertia	Specified Web Crippling Data (kN)			
			Mid Span	Support		End	End	Interior	Interior
(mm)	(kg/m^2)	(MPa)	($x10^3 mm^3$)	($x10^3 mm^3$)	Mid Span ($x10^6 mm^4$)	P_{e1}	P_{e2}	P_{i1}	P_{i2}
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

Load Table

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

Maximum Specified Uniformly Distributed Loads in kPa

Span		1-Span Base Steel Thickness (mm)					2-Span Base Steel Thickness (mm)					3-Span Base Steel Thickness (mm)				
(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		

Notes:

1. Steel conforms to ASTM A653M.
2. Section properties are in accordance with CSA-S136-07.
3. Values in row "S" are based on strength.
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5. Web crippling not included in strength values. See example calculation in notes to designer.
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