

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	0.0982	0.147	0.122	195	48.7	376	63.9
0.036	2.23	33	0.130	0.188	0.159	287	71.8	553	94.0
0.048	2.96	33	0.205	0.281	0.241	527	132	1011	172

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

Load Table

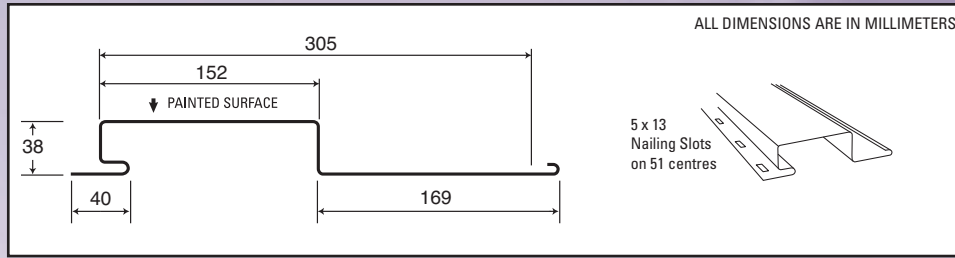
Maximum Specified Uniformly Distributed Loads in psf

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	87	115	181	118*	166*	248	134*	180	283
	D	221	288	437	530	691	1049	417	544	826
4'-6"	S	69	91	143	102	131	196	107	142	224
	D	155	202	307	372	485	737	293	382	580
5'-0"	S	56	74	116	83	106	159	87	115	181
	D	113	147	224	271	354	537	214	279	423
5'-6"	S	46	61	96	68	88	131	72	95	150
	D	85	111	168	204	266	404	161	209	318
6'-0"	S	39	51	81	58	74	110	60	80	126
	D	65	85	130	157	205	311	124	161	245
6'-6"	S	33	44	69	49	63	94	51	68	107
	D	51	67	102	123	161	244	97	127	193
7'-0"	S	28	38	59	42	54	81	44	59	92
	D	41	54	82	99	129	196	78	102	154
7'-6"	S	25	33	52	37	47	71	39	51	81
	D	33	44	66	80	105	159	63	83	125
8'-0"	S	22	29	45	32	41	62	34	45	71
	D	28	36	55	66	86	131	52	68	103
8'-6"	S	19	26	40	29	37	55	30	40	63
	D	23	30	46	55	72	109	43	57	86
9'-0"	S	17	23	36	26	33	49	27	36	56
	D	19	25	38	47	61	92	37	48	73

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 (mm)	Mass Z275 (kg/m ²)	Yield Stress (MPa)	Section Modulus (x 10 ³ mm ³)		Deflection Moment of Inertia Mid Span (x 10 ⁶ mm ⁴)	Specified Web Crippling Data (kN)			
			Mid Span	Support		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.762	8.85	230	5.26	7.86	0.166	2.87	0.718	5.55	0.943
0.914	10.6	230	6.98	10.1	0.216	4.24	1.06	8.16	1.39
1.22	14.2	230	11.0	15.1	0.328	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	4.32	5.74	9.03	5.90*	8.25*	12.4	6.70*	8.96	14.1
	D	11.1	14.4	21.9	26.5	34.6	52.6	20.9	27.3	41.4
1400	S	3.18	4.22	6.63	4.74	6.08	9.09	4.96	6.59	10.4
	D	6.96	9.08	13.8	16.7	21.8	33.1	13.2	17.2	26.1
1500	S	2.77	3.67	5.78	4.13	5.29	7.92	4.32	5.74	9.03
	D	5.66	7.39	11.2	13.6	17.7	26.9	10.7	14.0	21.2
1600	S	2.43	3.23	5.08	3.63	4.65	6.96	3.80	5.04	7.93
	D	4.67	6.09	9.24	11.2	14.6	22.2	8.82	11.5	17.5
1800	S	1.92	2.55	4.01	2.87	3.68	5.50	3.00	3.98	6.27
	D	3.28	4.27	6.49	7.86	10.3	15.6	6.19	8.08	12.3
2000	S	1.56	2.07	3.25	2.32	2.98	4.45	2.43	3.23	5.08
	D	2.39	3.12	4.73	5.73	7.48	11.4	4.52	5.89	8.94
2200	S	1.29	1.71	2.69	1.92	2.46	3.68	2.01	2.67	4.20
	D	1.79	2.34	3.55	4.31	5.62	8.53	3.39	4.42	6.72
2400	S	1.08	1.43	2.26	1.61	2.07	3.09	1.69	2.24	3.53
	D	1.38	1.80	2.74	3.32	4.33	6.57	2.61	3.41	5.17
2500	S	1.00	1.32	2.08	1.49	1.91	2.85	1.56	2.07	3.25
	D	1.22	1.60	2.42	2.94	3.83	5.81	2.31	3.02	4.58
2600	S	0.92	1.22	1.92	1.38	1.76	2.64	1.44	1.91	3.00
	D	1.09	1.42	2.15	2.61	3.40	5.17	2.06	2.68	4.07
2800	S	0.79	1.05	1.66	1.19	1.52	2.27	1.24	1.65	2.59
	D	0.87	1.14	1.72	2.09	2.73	4.14	1.65	2.15	3.26

* load controlled by web crippling based on 38 mm bearing

