

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	0.0975	0.149	0.114	195	48.7	376	63.9
0.036	2.23	33	0.130	0.190	0.148	287	71.8	553	94
0.048	2.96	33	0.206	0.283	0.224	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

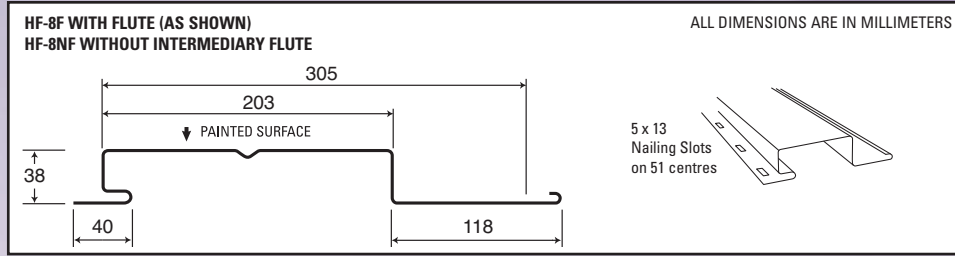
Maximum Specified Uniformly Distributed Loads in psf

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	86	115	182	118*	166*	250	134*	179	284
	D	207	269	407	496	645	978	390	508	770
4'-6"	S	68	91	144	104	133	197	106	142	224
	D	145	189	286	348	453	687	274	357	541
5'-0"	S	55	73	116	84	107	160	86	115	182
	D	106	138	209	254	330	501	200	260	394
5'-6"	S	46	61	96	70	89	132	71	95	150
	D	79	103	157	191	248	376	150	196	296
6'-0"	S	38	51	81	58	75	111	60	80	126
	D	61	80	121	147	191	290	116	151	228
6'-6"	S	33	43	69	50	64	95	51	68	108
	D	48	63	95	116	150	228	91	118	179
7'-0"	S	28	37	59	43	55	82	44	59	93
	D	39	50	76	92	120	182	73	95	144
7'-6"	S	25	33	52	37	48	71	38	51	81
	D	31	41	62	75	98	148	59	77	117
8'-0"	S	22	29	45	33	42	62	34	45	71
	D	26	34	51	62	81	122	49	64	96
8'-6"	S	19	25	40	29	37	55	30	40	63
	D	22	28	42	52	67	102	41	53	80
9'-0"	S	17	23	36	26	33	49	27	35	56
	D	18	24	36	44	57	86	34	45	68

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		Deflection Moment of Inertia Mid Span (x 10 ⁶ mm ⁴)	Specified Web Crippling Data (kN)			
			Mid Span (x 10 ³ mm ³)	Support (x 10 ³ mm ³)		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.762	8.85	230	5.23	7.98	0.155	2.87	0.718	5.55	0.943
0.914	10.6	230	6.96	10.2	0.202	4.24	1.06	8.16	1.39
1.22	14.2	230	11.0	15.2	0.305	7.78	1.94	14.9	2.54

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 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	4.29	5.72	9.05	5.90*	8.25*	12.5	6.70*	8.93	14.1
	D	10.4	13.5	20.4	24.8	32.3	49.0	19.6	25.5	38.6
1400	S	3.15	4.20	6.65	4.82	6.15	9.15	4.93	6.56	10.4
	D	6.52	8.48	12.9	15.6	20.4	30.8	12.3	16.0	24.3
1500	S	2.75	3.66	5.79	4.20	5.36	7.97	4.29	5.72	9.05
	D	5.30	6.90	10.5	12.7	16.6	25.1	10.0	13.0	19.8
1600	S	2.42	3.21	5.09	3.69	4.71	7.00	3.77	5.02	7.95
	D	4.36	5.68	8.61	10.5	13.6	20.7	8.25	10.7	16.3
1800	S	1.91	2.54	4.02	2.91	3.72	5.53	2.98	3.97	6.28
	D	3.07	3.99	6.05	7.36	9.58	14.5	5.79	7.54	11.4
2000	S	1.55	2.06	3.26	2.36	3.01	4.48	2.42	3.21	5.09
	D	2.23	2.91	4.41	5.36	6.98	10.6	4.22	5.50	8.33
2200	S	1.28	1.70	2.69	1.95	2.49	3.70	2.00	2.66	4.21
	D	1.68	2.19	3.31	4.03	5.25	7.95	3.17	4.13	6.26
2400	S	1.07	1.43	2.26	1.64	2.09	3.11	1.68	2.23	3.53
	D	1.29	1.68	2.55	3.10	4.04	6.12	2.44	3.18	4.82
2500	S	0.99	1.32	2.08	1.51	1.93	2.87	1.55	2.06	3.26
	D	1.14	1.49	2.26	2.75	3.58	5.42	2.16	2.82	4.26
2600	S	0.91	1.22	1.93	1.40	1.78	2.65	1.43	1.90	3.01
	D	1.02	1.32	2.01	2.44	3.18	4.81	1.92	2.50	3.79
2800	S	0.79	1.05	1.66	1.20	1.54	2.29	1.23	1.64	2.60
	D	0.81	1.06	1.61	1.95	2.55	3.85	1.54	2.00	3.04

* load controlled by web crippling based on 38 mm bearing

Notes:

- Steel conforms to ASTM A653M.
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