



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 <sup>4</sup> )	Specified Web Crippling Data (lb)			
			Mid Span (in <sup>3</sup> )	Support (in <sup>3</sup> )		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.030	1.87	33	0.0934	0.145	0.0926	195	48.7	376	63.9
0.036	2.23	33	0.125	0.182	0.120	287	71.8	553	94
0.048	2.96	33	0.198	0.261	0.178	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	83	110	175	118*	161	230	129	172	273
	D	168	217	324	404	521	777	318	410	612
4'-6"	S	65	87	138	101	127	182	102	136	216
	D	118	153	227	284	366	546	223	288	430
5'-0"	S	53	70	112	82	103	147	83	110	175
	D	86	111	166	207	267	398	163	210	313
5'-6"	S	44	58	92	68	85	122	68	91	144
	D	65	84	125	155	200	299	122	158	235
6'-0"	S	37	49	78	57	72	102	57	76	121
	D	50	64	96	120	154	230	94	122	181
6'-6"	S	31	42	66	49	61	87	49	65	103
	D	39	51	75	94	121	181	74	96	143
7'-0"	S	27	36	57	42	53	75	42	56	89
	D	31	41	60	75	97	145	59	77	114
7'-6"	S	23	31	50	36	46	66	37	49	78
	D	26	33	49	61	79	118	48	62	93
8'-0"	S	21	28	44	32	40	58	32	43	68
	D	21	27	40	50	65	97	40	51	76
8'-6"	S	18	24	39	28	36	51	29	38	60
	D	18	23	34	42	54	81	33	43	64
9'-0"	S	16	22	35	25	32	46	25	34	54
	D	15	19	28	35	46	68	28	36	54

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.

