



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)	Mr (lb in)		Specified Web Crippling Data (lb)			
			Mid Span (in ³)	Support (in ³)		Mid Span	Support	Pe1	Pe2	Pi1	Pi2
0.0150	0.73	80	0.0616	0.0616	0.0181	3324.6	4432.8	185.3	46.33	355.1	60.37
0.0180	0.92	33	0.0429	0.0429	0.0136	1275.4	1275.4	152.2	38.04	291.1	49.49
0.0240	1.22	33	0.0616	0.0616	0.0181	1828.5	1828.5	280.9	70.22	536.0	91.12
0.0300	1.53	33	0.0758	0.0758	0.0226	2252.3	2252.3	446.6	111.6	850.6	144.6

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

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.)			
		0.0150	0.0180	0.0240	0.0300	0.0150	0.0180	0.0240	0.0300	0.0150	0.0180	0.0240	0.0300
2'-0"	S	396	152	218	268	528	152	218	268	618	190	272	335
	D	264	198	264	328	660	495	660	822	498	373	498	620
2'-3"	S	313	120	172	212	417	120	172	212	489	150	215	265
	D	185	139	185	231	464	348	464	578	350	262	349	435
2'-6"	S	253	97	139	172	338	97	139	172	396	121	174	215
	D	135	101	135	168	338	254	338	421	255	191	255	317
2'-9"	S	209	80	115	142	279	80	115	142	327	100	144	177
	D	101	76	101	126	254	190	254	316	191	144	191	238
3'-0"	S	176	67	97	119	235	67	97	119	275	84	121	149
	D	78	59	78	97	196	147	196	244	147	111	147	184
3'-3"	S	150	57	82	102	200	57	82	102	234	72	103	127
	D	61	46	61	77	154	115	154	192	116	87	116	144
3'-6"	S	129	50	71	88	172	50	71	88	202	62	89	109
	D	49	37	49	61	23	92	123	153	93	70	93	116
3'-9"	S	113	43	62	76	150	43	62	76	176	54	77	95
	D	40	30	40	50	100	75	100	125	76	57	75	94
4'-0"	S	99	38	54	67	132	38	54	67	155	47	68	84
	D	33	25	33	41	83	62	83	103	62	47	62	77
4'-3"	S	88	34	48	59	117	34	48	59	137	42	60	74
	D	27	21	27	34	69	52	69	86	52	39	52	65
4'-6"	S	78	30	43	53	104	30	43	53	122	37	54	66
	D	23	17	23	29	58	43	58	72	44	33	44	54
4'-9"	S	70	27	39	48	94	27	39	48	110	34	48	59
	D	20	15	20	25	49	37	49	61	37	28	37	46
5'-0"	S	63	24	35	43	84	24	35	43	99	30	44	54
	D	17	13	17	21	42	32	42	53	32	24	32	40
5'-3"	S	57	22	32	39	77	22	32	39	90	28	39	49
	D	15	11	15	18	37	27	37	45	28	21	28	34
5'-6"	S	52	20	29	35	70	20	29	35	82	25	36	44
	D	13	10	13	16	32	24	32	40	24	18	24	30

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. Contact the sales department for stocked colours and gauges.
7. The load table contained on this data sheet was prepared by XRS Engineered Solutions Inc., Burlington, Ontario, Canada.

