



SECTION PROPERTIES (Per Foot of Width)

Base Steel Thickness (in.)	GAGE	Yield Stress (ksi)	Weight G90 (psf)	Sec. Modulus		Deflection Moment of Inertia L_{sd} (in ⁴)	Web Crippling Loads		Web Crippling Data			
				S_{pos} (in ³)	S_{neg} (in ³)		N = 1.5" P_e (lb)	N = 3" P_i (lb)	P_{e1} End (lb)	P_{e2} End (lb)	P_{i1} Interior (lb)	P_{i2} Interior (lb)
0.0239	24	80	1.36	0.130	0.123	0.141	654	1134	219	54.8	391	66.4
0.0295	22	80	1.66	0.170	0.166	0.177	964	1697	346	86.6	625	106
0.0358	20	80	2.01	0.218	0.207	0.214	1376	2449	526	131	958	163

ALLOWABLE UNIFORMLY DISTRIBUTED LOADS (psf)

Span Length (ft.)	MAX CO. CANTILEVER SPAN (ft.-in.)	5.0		5.5		6.0		6.5		7.0		7.5		8.0		8.5		9.0		9.5		10.0		
		S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	
1- SPAN Bas Steel Thickness (in.)	24	7' 9"	124	74	103	55	86	43	74	34	63	27	55	22	49	18	43	15	38	13	34	11	31	9
	22	10' 2"	163	93	135	70	113	54	97	42	83	34	73	27	64	23	56	19	50	16	45	14	41	12
	20	13' 0"	209	112	173	84	145	65	124	51	107	41	93	33	82	27	72	23	64	19	58	16	52	14
2- SPAN Bas Steel Thickness (in.)	24	9' 6"	118	176	98	132	82	102	70	80	60	64	53	52	46	43	41	36	36	30	33	26	30	22
	22	12' 6"	159	221	131	166	110	128	94	100	81	80	71	65	62	54	55	45	49	38	44	32	40	28
	20	16' 0"	198	267	164	201	137	155	117	122	101	97	88	79	77	65	68	54	61	46	55	39	49	33
3- SPAN Bas Steel Thickness (in.)	24	9' 8"	148	139	122	105	103	81	87	63	75	51	66	41	58	34	51	28	46	24	41	20	37	17
	22	12' 9"	199	175	164	131	138	101	118	80	101	64	88	52	78	43	69	36	61	30	55	25	50	22
	20	16' 3"	247	212	204	159	172	123	146	96	126	77	110	63	97	52	86	43	76	36	69	31	62	26

Notes:

- Based on ASTM A 653 structural steel.
- Values in row "S" are based on strength.
- Values in row "D" are based on deflection of SPAN LENGTH/240.
- P_e = Allowable end web crippling load based on N = 1.5 in.
- P_i = Allowable interior web crippling load based on N = 3.0 in.
- Web crippling not included in strength calculations. See Example.
- If bearing lengths are less than specified, see Example for use of web crippling data.
- MAX CO. SPAN = Maximum construction span based on 200 lb concentrated load per foot of deck (ANSI/SDI RD-2017).
- CANTIL. SPAN = Maximum construction cantilever span based on Eq. 2.4.3 of (ANSI/SDI RD-2017).
- Allowable Strength Design (ASD) principles were used in accordance with AISI S100-16.

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GAGE	CANTILEVER SPAN
24	1' 9"
22	2' 3"
20	2' 10"