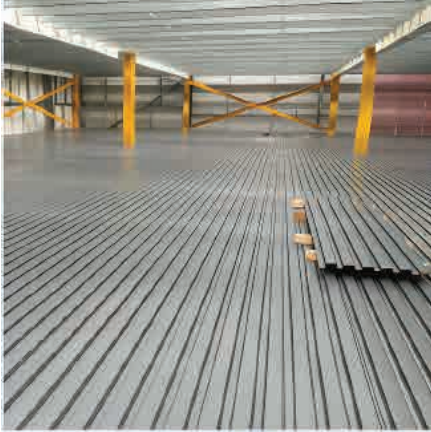
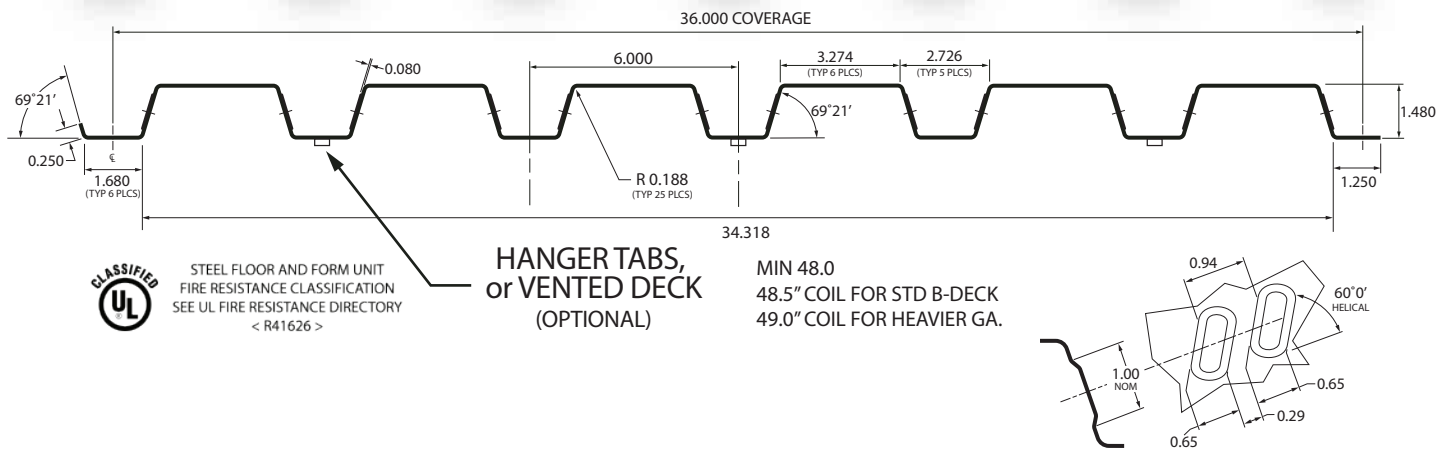


**AT A GLANCE:**

- 36" coverage
- 1.5" rib, wide rib up or inverted
- Standard 22 ga., available in 22 ga., 20 ga., 18 ga., & 16 ga.
- Stocked in Grade 50, G60 finish
- Primer coated steel or G90 galvanized special order



StrongSeam B-Deck is a widely used panel for both floor decking and roof decking. MPI stocks 22 ga. galvanized panels in 20' and 25' lengths. StrongSeam B-Deck is available in 22 ga., 20 ga., 18 ga., and 16 ga. run to customer specified length.

GRADE 50 STEEL, G60

Table 1A – Section Properties and Flexural Resistance (Bare Deck) (1.5 Composite and 1.5 Inverted Form)

Profile	Gauge #	Design Thickness (inches)	Weight (psf)	F _y ksi	S _e + (inch ³ per ft)	S _e - (inch ³ per ft)	ASD (Ω = 1.67)		I _d + (inch ⁴ per ft)	I _d - (inch ⁴ per ft)
							M _p /Ω inch-lbs per ft	M _r /Ω inch-lbs per ft		
1.5x6	22	0.0295	1.6	50	0.176	0.184	5258	5506	0.160	0.180
1.5x6	20	0.0358	2.0	50	0.233	0.236	6966	7064	0.200	0.222
1.5x6	18	0.0474	2.6	50	0.328	0.327	9830	9800	0.281	0.303
1.5x6	16	0.0598	3.0	50	0.422	0.416	12625	12465	0.372	0.383

Table 1A Notes:

1. All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, ANSI/SDI SD-2022, and AISI S100-2012 and AISI S100-2016

Table 1B – Shear and Web Crippling (Bare Deck) (1.5 Composite and 1.5 Inverted Form) (50 ksi)

Profile	Gauge #	V _n /Ω lbs per ft	Web Crippling (R _n /Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R _n /Ω), lbs/ft One Flange Loading Interior Bearing		
			1-1/2"	2"	3"	1-1/2"	2"	3"
1.5x6	22	2802	806	886	1019	1199	1301	1471
1.5x6	20	3389	1149	1258	1443	1733	1873	2109
1.5x6	18	4460	1918	2092	2383	2949	3172	3546
1.5x6	16	5589	2933	3185	3608	4574	4900	5446

Table 1B Notes:

1. All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, ANSI/SDI SD-2022, and AISI S100-2012 and AISI S100-2016

Table 2 – 1.5 Deck (Bare Deck) – (1.5 Composite and 1.5 Inverted Form)

Table 2.1 1.5 Composite and 1.5 Inverted Form (50 ksi) ASD Uniform Superimposed Downward Loads (psf)

Span	Gauge #	5'-00"	5'-06"	6'-00"	6'-06"	7'-00"	7'-06"	8'-00"	8'-06"	9'-00"	9'-06"	10'-00"
Single	22	140	116	97	83	72	62	55	49	43	39	35
	20	186	154	129	110	95	83	73	64	57	51	46
	18	262	217	182	155	134	117	102	91	81	73	66
	16	337	278	234	199	172	150	132	116	104	93	84
Double	22	147	121	102	87	75	65	57	51	45	41	37
	20	188	156	131	111	96	84	74	65	58	52	47
	18	261	216	181	155	133	116	102	90	81	72	65
	16	332	275	231	197	170	148	130	115	103	92	83
Triple	22	184	152	127	109	94	82	72	64	57	51	46
	20	235	195	164	139	120	105	92	81	73	65	59
	18	327	270	227	193	167	145	128	113	101	90	82
	16	416	343	289	246	212	185	162	144	128	115	104

Tables 2 Notes:

1. All section properties and ASD (Ω = 1.67) uniform loads are calculated in accordance with ANSI/SDI RD-2017, AISI S100-2012 and AISI S100-2016.
2. Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports. Tabulated loads shall not be increased by assuming clear span dimensions.
3. Bending Moment formulae used for flexural stress limitations are:

$$\text{Simple and Two Span} \quad M = \frac{wl^2}{8}$$

$$\text{Three Span or More} \quad M = \frac{wl^2}{10}$$

4. Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.