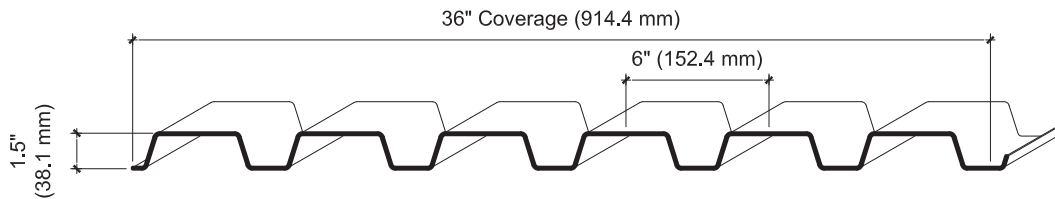


B DECK



FEATURES

- Perfect for Roofs, Mezzanines, Canopies & Shelving

PANEL DEPTH

- 1 1/2" [38.1mm]

PANEL COVER WIDTH

- 36" (914.4mm) May vary between material thickness $\pm 1"$

METAL OPTIONS

- 20 [.91mm] & 22 [.76mm] gauge G90 galvanized steel

SURFACE OPTIONS

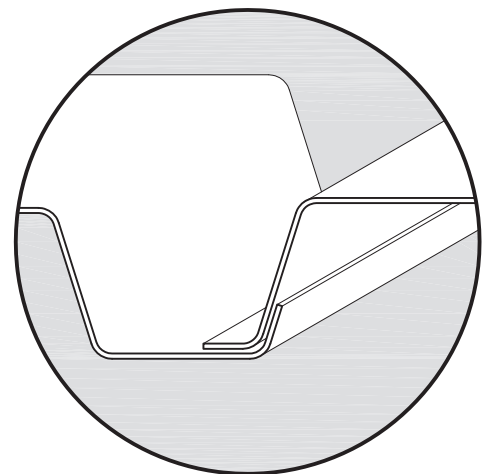
- Smooth - standard
- Perforated - optional
- Non-directional embossing – optional

FINISHES

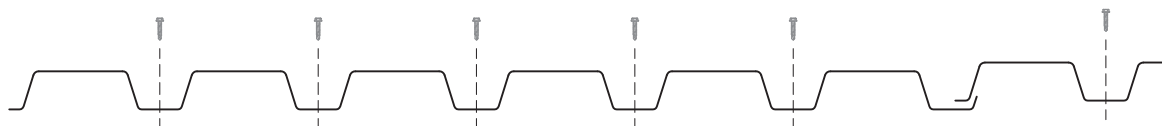
- Galvanized G60
- G90 - Galvanized Special Order

PANEL LENGTHS

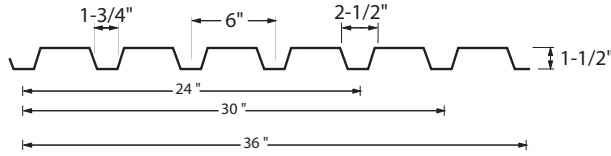
- 5ft. [1.52m] to 45 ft. [13.71m] standard
Shorter & longer lengths available – contact Riverside Corrugating



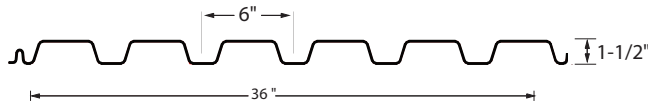
TYPICAL STEEL DECK NESTABLE ASSEMBLY DETAIL



B DECK



Width: 36" Panel Coverage



B DECK is a steel roof deck panel. Can be used for roofs, mezzanines, canopies & shelving.

Length:
Minimum Factory Cut 4'-00"
Maximum Factory Cut 45'-00"

Finishes:
Galvanized G60
Galvanized G90

Standard in 20ga, Available in 22

Notes:

Meets all SDI specifications

Tolerances:

Length $\pm 1/8"$

Deck Type	Design Thickness Inches	W PSF	Section Properties				V _s lbs/ft	F _y ksi
			I _p in ² /ft	S _p in ³ /ft	I _x in ² /ft	S _x in ³ /ft		
B24	0.0239	1.46	0.107	0.120	0.135	0.131	2634	60
B22	0.0295	1.48	0.155	0.186	0.183	0.192	1818	33
B20	0.0358	2.14	0.201	0.234	0.222	0.247	2193	33
B19	0.0418	2.49	0.246	0.277	0.260	0.289	2546	33

Deck Type	Design Thickness in.	W psf	Allowable Total (PSF) / Load Causing Deflection of L/240 or 1 inch (PSF)										
			Span (ft.-in.) ctr to ctr of supports										
			5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	9-0	9-6	10-0
1	B24	4'-8	11/56	95/42	80/32	68/26	59/20	51/17	45/14	40/11	35/10	32/8	29/7
	B22	5'-7	98/81	81/61	68/47	58/37	50/30	44/34	38/20	34/17	30/14	27/12	25/10
	B20	6'-5	123/105	102/79	86/61	73/48	63/38	55/31	48/26	43/21	38/18	34/15	31/13
	B19	7'-1	146/129	121/97	101/75	86/59	74/47	65/38	57/31	51/26	45/22	40/19	36/16
2	B24	5'-10	124/153	103/115	86/88	74/70	64/56	56/45	49/37	43/31	39/26	35/22	31/19
	B22	6'-11	100/213	83/160	70/124	59/97	51/78	45/63	39/52	35/43	31/37	28/31	25/27
	B20	7'-9	128/267	106/201	89/155	76/122	66/97	57/79	51/65	45/54	40/46	36/39	32/33
	B19	8'-5	150/320	124/240	104/185	89/145	77/116	67/95	59/78	52/65	47/55	42/47	38/40
3	B24	5'-10	154/120	128/90	108/69	92/55	79/44	69/35	61/29	54/24	48/21	43/17	39/15
	B22	6'-11	124/167	103/126	87/97	74/76	64/61	56/50	49/41	43/34	39/29	35/24	31/21
	B20	7'-9	159/209	132/157	111/121	95/95	82/76	72/62	63/51	56/43	50/36	45/31	40/26
	B19	8'-5	186/250	154/188	130/145	111/114	96/91	84/74	74/61	65/51	58/43	52/37	47/31

Notes: 1. Minimum exterior bearing length required is 1.50 inches. Minimum interior bearing length required is 3.00 inches. If these minimum lengths are not provided, web crippling must be checked.

B DECK Panel - Section Properties & Load Tables

Deck Type	Design Thickness (in.)	W PSF	I_p	S_p	I_n	S_n	V_a lbs/ft	F_y ksi
			in ⁴ /ft	in ³ /ft	in ⁴ /ft	in ³ /ft		
B24	0.0239	1.46	0.107	0.120	0.135	0.131	2634	60
B22	0.0295	1.48	0.155	0.186	0.183	0.192	1818	33
B20	0.0358	2.14	0.201	0.234	0.222	0.247	2193	33
B19	0.0418	2.49	0.246	0.246	0.277	0.260	2546	33

Deck Type	Deck Type	Max SDI Const. Span	Allowable Total (PSF) / Load Causing Deflection of L/240 or 1 inch (PSF)										
			Span (ft.-in.) ctr to ctr of supports										
			5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	9-0	9-6	10-0
1	B24	4'-8"	115/56	95/42	80/32	68/26	59/20	51/17	45/14	40/11	35/10	32/8	29/7
	B22	5'-7"	98/81	81/61	68/47	58/37	50/30	44/34	38/20	34/17	30/14	27/12	25/10
	B20	6'-5"	123/105	102/79	86/61	73/48	63/38	55/31	48/26	43/21	38/18	34/15	31/13
	B19	7'-1"	146/129	121/97	101/75	86/59	74/47	65/38	57/31	51/26	45/22	40/19	36/16
2	B24	5'-10"	124/153	103/115	86/88	74/70	64/56	56/45	49/37	43/31	39/26	35/22	31/19
	B22	6'-11"	100/213	83/160	70/124	59/97	51/78	45/63	39/52	35/43	31/37	28/31	25/27
	B20	7'-9"	128/267	106/201	89/155	76/122	66/97	57/79	51/65	45/54	40/46	36/39	32/33
	B19	8'-5"	150/320	124/240	104/185	89/145	77/116	67/95	59/78	52/65	47/55	42/47	38/40
3	B24	5'-10"	154/120	128/90	108/69	92/55	79/44	69/35	61/29	54/24	48/21	43/17	39/15
	B22	6'-11"	124/167	103/126	87/97	74/76	64/61	56/50	49/41	43/34	39/29	35/24	31/21
	B20	7'-9"	159/209	132/157	111/121	95/95	82/76	72/62	63/51	56/43	50/36	45/31	40/26
	B19	8'-5"	186/250	154/188	130/145	111/114	96/91	84/74	74/61	65/51	58/43	52/37	47/31

Notes: 1. Minimum exterior bearing length required is 1.50 inches. Minimum interior bearing length required is 3.00 inches. If these minimum lengths are not provided, web crippling must be checked.

- Theoretical section properties have been calculated per AISI 2001 "Specification for the Design of Cold-formed Steel Structural Members." I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and shear deflection, and applicable testing when available. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection and panel weight is not considered.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase in uplift