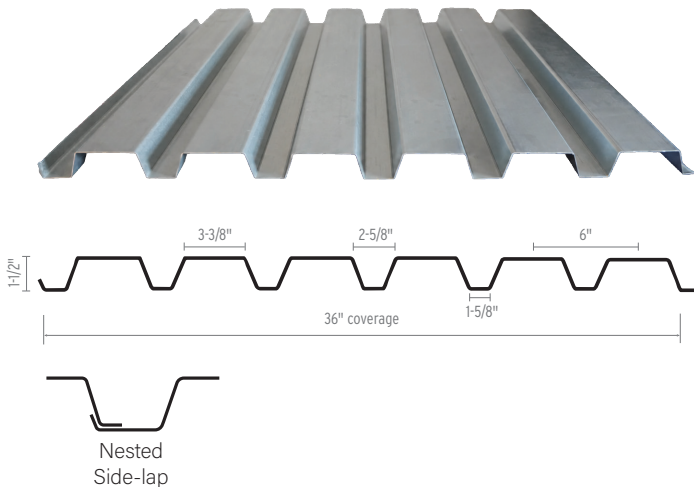


B Deck

Crafted For The Professional To Last A Lifetime



Summary

B Deck combines durability with versatility, offering a dependable base that adapts to a variety of commercial and industrial applications.

Panel Specifications

- ✓ Grade 50 Steel
- ✓ 1.5B-36 Deck Used With Side-Lap Screws

Thickness

- ✓ 22 Gauge Steel
- ✓ 20 Gauge Steel

Paint System

- ✓ ASTM A653 SS GR50 Min, With G60 Or G90, White Or Gray Primer Optional

Sizing

- ✓ 3' to 30'

Section Properties

Deck Gauge	Deck Weight w_{dd} (psf)	Base Metal Thickness t (in.)	Yield Strength F_y (ksi)	Effective Moment of Inertia at Service Load $I_d = (2I_e + I_g)/3$		Effective Section Modulus at $F_y = 50$ ksi		Allowable Movement		Vertical Web Shear V_n/Ω (lb/ft)
				I_{d+} (in ⁴ /ft)	I_{d-} (in ⁴ /ft)	S_{e+} (in ³ /ft)	S_{e-} (in ³ /ft)	$M_n + / \Omega$ (lb-ft/ft)	$M_n - / \Omega$ (lb-ft/ft)	
22	1.6	0.0295	50	0.155	0.178	0.169	0.179	422	447	2654
20	2.0	0.0358	50	0.197	0.217	0.224	0.229	559	571	3207

Bearing Lengths of Webs

Deck Gauge	One-Flange Loading						Two-Flange Loading					
	1-1/2"	End Bearing		Interior Bearing			End Bearing		Interior Bearing			
		2"	3"	4"	3"	4"	1-1/2"	2"	3"	4"	3"	4"
22	807	887	1021	1115	1482	1602	842	908	1017	1093	1834	1994
20	1153	1263	1448	1574	2127	2289	1274	1368	1525	1632	2662	2881

Inward Uniform Allowable Loads, ASD (psf)

Deck Gauge	Spans	Criteria	Span (ft-in.)										
			2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
22	Single	W_n / Ω	843	375	211	135	94	69	53	42	34	28	23
		L/240	-	-	159	81	47	30	20	14	10	8	6
	Double	W_n / Ω	823	382	219	141	98	72	56	44	36	29	25
		L/240	-	-	-	-	-	-	55	39	28	21	16
	Triple	W_n / Ω	997	470	271	175	122	90	69	55	44	37	31
		L/240	-	-	-	-	102	64	43	30	22	17	13
20	Single	W_n / Ω	1117	497	279	179	124	91	70	55	45	37	31
		L/240	-	478	202	103	60	38	25	18	13	10	7
	Double	W_n / Ω	1044	487	279	180	126	93	71	56	46	38	32
		L/240	-	-	-	-	-	-	67	47	34	26	20
	Triple	W_n / Ω	1260	598	345	223	156	115	88	70	57	47	40
		L/240	-	-	-	215	124	78	52	37	27	20	16

Notes:

- Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
- The "-" symbol indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

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