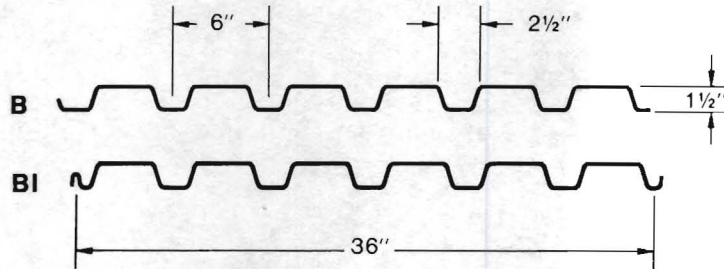
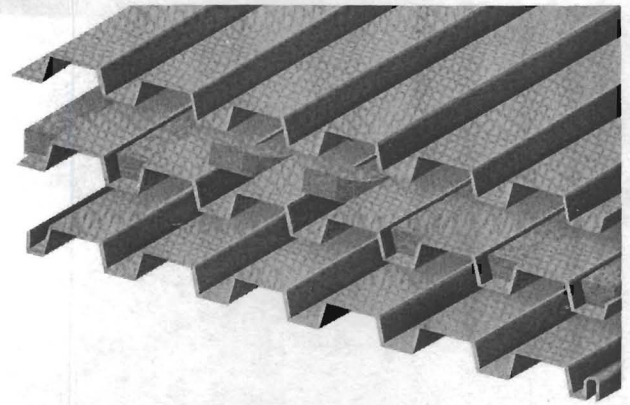


1.5 B, BI, BA, BIA

Maximum Sheet Length 42'-0
 Extra Charge for Lengths Under 6'-0
 Factory Mutual Approved (No. 0C847.AM, 0G1A4.AM,
 and 3Y1A6.AM) **
 ICBO Approved (No.3415)



SECTION PROPERTIES

Deck Type	Design Thick.	Weight (PSF)		I in ⁴ /ft	Sp in ³ /ft	S _n in ³ /ft	F _y KSI
		Ptd.	Galv.				
B24	0.0239	1.36	1.46	0.121	0.120	0.131	60
B22	0.0295	1.68	1.78	0.169	0.186	0.192	33
B21	0.0329	1.87	1.97	0.192	0.213	0.221	33
B20	0.0358	2.04	2.14	0.212	0.234	0.247	33
B19	0.0418	2.39	2.49	0.253	0.277	0.289	33
B18	0.0474	2.72	2.82	0.292	0.318	0.327	33
B16	0.0598	3.44	3.54	0.373	0.408	0.411	33

ACOUSTICAL INFORMATION

Deck Type	Absorption Coefficient						Noise Reduction Coefficient*
	125	250	500	1000	2000	4000	
1.5BA, 1.5BIA	.11	.20	.63	1.04	.66	.36	.65

* Source: Riverbank Acoustical Laboratories — RAL™ A94-185.
 Test was conducted with 1.5 inches of 1.65 pcf fiberglass insulation on 3 inch EPS Plaza deck for the SDI.

Type B (wide rib) deck provides excellent structural load carrying capacity per pound of steel utilized, and its nestable design eliminates the need for die-set ends.

1" or more rigid insulation is required for Type B deck.

Acoustical deck (Type BA, BIA) is particularly suitable in structures such as auditoriums, schools, and theatres where sound control is desirable. Acoustic perforations are located in the vertical webs where the load carrying properties are negligibly affected (less than 5%).

Inert, non-organic glass fiber sound absorbing batts are placed in the rib openings to absorb up to 65% of the sound striking the deck.

Batts are field installed and may require separation.

VERTICAL LOADS FOR TYPE 1.5B

No. of Spans	Deck Type	Max. SDI Const. Span	Allowable Total (Dead + Live) Uniform Load (PSF)											
			Span (ft.-in.) C. to C. of Support											
			5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	
1	B 24	4'-8	66	52	42	36	30	27	24	21	20			
	B 22	5'-7	91	71	57	47	40	34	30	27	24	22	20	
	B 21	6'-0	104	81	64	53	44	38	33	29	26	24	22	
	B 20	6'-5	115	89	71	58	48	41	36	31	28	25	23	
	B 19	7'-1	139	107	85	69	57	48	41	36	32	29	26	
	B 18	7'-8	162	124	98	79	65	55	47	41	36	32	29	
	B 16	8'-8	206	157	123	99	81	68	58	50	44	39	34	
2	B 24	5'-10	126	104	87	74	64	55	47	41	36	32	29	
	B 22	6'-11	102	85	71	61	52	46	40	35	32	28	26	
	B 21	7'-4	118	97	82	70	60	52	46	41	36	33	29	
	B 20	7'-9	132	109	91	78	67	59	51	46	41	36	33	
	B 19	8'-5	154	127	107	91	79	69	60	53	48	43	39	
	B 18	9'-1	174	144	121	103	89	78	68	60	54	48	44	
	B 16	10'-3	219	181	152	130	112	97	86	76	68	61	55	
3	B 24	5'-10	130	100	79	65	54	45	39	34	31	27	25	
	B 22	6'-11	128	106	89	76	65	57	50	44	39	34	31	
	B 21	7'-4	147	122	102	87	75	65	56	49	42	38	34	
	B 20	7'-9	165	136	114	97	84	72	61	53	46	41	36	
	B 19	8'-5	193	159	134	114	98	84	71	61	53	47	41	
	B 18	9'-1	218	180	151	129	111	96	81	69	60	52	46	
	B 16	10'-3	274	226	190	162	140	119	100	85	73	64	56	

- Notes: 1. Load tables are calculated using sectional properties based on the steel design thickness shown in the Steel Deck Institute (SDI) Design Manual.
 2. Loads shown in the shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 PSF has been included.
 3. ** Acoustical Deck is not covered under Factory Mutual