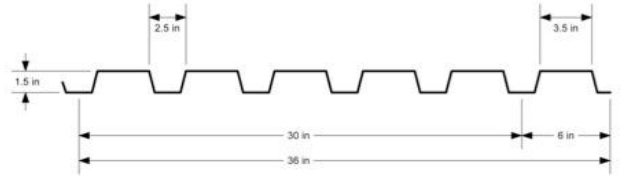
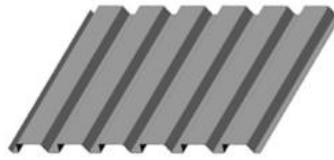




TYPE "B" ROOF DECK SPECIFICATIONS

Applicable for 1.5" B, BI, BA, BIA, BSV



SECTION PROPERTIES

Deck Gauge	Design Thick.	Wt per PSF (Galv)	I_p	S_p	I_n	S_n	V_a	F_y
			in ⁴ /ft	in ³ /ft	in ⁴ /ft	in ³ /ft		
24	0.0239	1.46	0.107	0.120	0.135	0.131	2,634	60
22	0.0295	1.78	0.155	0.186	0.183	0.192	1,818	33
20	0.0358	2.14	0.201	0.234	0.222	0.247	2,193	33
19	0.0418	2.49	0.246	0.277	0.260	0.289	2,546	33
18	0.0474	2.82	0.289	0.318	0.295	0.327	2,870	33
16	0.0598	3.54	0.373	0.408	0.373	0.411	3,578	33

ACOUSTICAL INFORMATION

Deck Type	Absorption Coefficient						Noise Reduction Coefficient ¹
	125	250	500	1000	2000	4000	
1.5BA 1.5BIA	0.11	0.18	0.66	1.02	0.61	0.33	0.60

¹ Source: Riverbank Acoustical Laboratories. Test conducted with 1.50 pcf fiberglass batts and 2" polyisocyanurate foam insulation 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 60% of the sound striking the deck.

VERTICAL LOADS

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

1. Load tables are calculated using sectional properties based on the steel design thickness shown in the Steel Deck Institute 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.