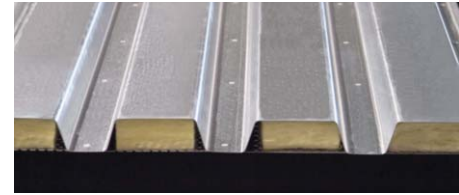
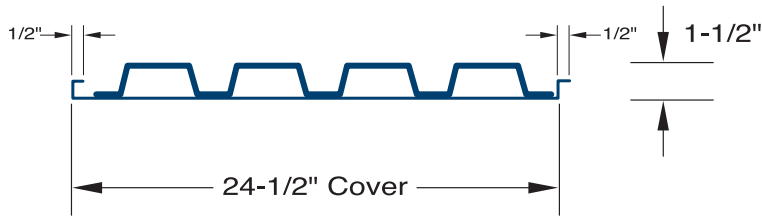


# TYPE "B-CELLULAR" (WIDE RIB)



Type "B-Cellular" Acoustical Type Shown

## Section Properties (Fy=33 ksi)

Helpful Hint: Type "B" cellular roof deck is mainly utilized in exposed ceiling areas where a flat bottom deck is desired for aesthetic purposes.

Gage Top/Bot	Weight (psf) Galv	Ip(In <sup>4</sup> )	In(In <sup>4</sup> )	Sp(In <sup>3</sup> )	Sn(In <sup>3</sup> )
20/20	3.53	0.378	0.455	0.358	0.399
20/18	4.02	0.417	0.504	0.317	0.481
18/20	4.48	0.504	0.551	0.47	0.462
18/18	5.11	0.558	0.611	0.491	0.596
18/16	5.58	0.608	0.668	0.512	0.637
16/18	5.58	0.701	0.717	0.664	0.693
16/16	6.3	0.765	0.784	0.689	0.782

- Section properties calculated in accordance with AISI specifications

## Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	.70
.11	.47	.63	.87	.88	.70	

Gage	Span Cond	Uniform Total Load in Pounds Per Square Foot (Dead and Live)									
		6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"
20/20	One	125	100	82	69	58	50	44	42	37	34
20/18		116	99	85	74	63	55	48	42	37	34
18/20		163	131	106	88	75	64	55	49	43	39
18/18		180	143	117	97	82	70	60	53	47	42
18/16		187	155	126	105	88	75	65	57	50	44
16/18		223	178	144	129	100	85	73	64	56	50
16/16		243	193	156	129	108	92	79	69	60	53
20/20	Two	146	124	107	93	82	73	65	58	53	48
20/18		176	150	129	113	99	88	78	70	63	57
18/20		169	144	124	108	95	84	75	67	61	55
18/18		218	186	160	140	123	109	97	87	79	71
18/16		233	199	171	149	131	116	104	93	84	76
16/18		254	216	186	162	143	126	113	101	91	83
16/16		286	244	210	183	161	143	127	114	103	93
20/20	Three or More	183	156	134	117	101	86	74	65	57	50
20/18		220	187	160	132	111	94	81	70	62	55
18/20		211	180	155	135	119	105	94	83	72	64
18/18		273	232	200	174	145	122	105	91	79	70
18/16		291	248	214	186	157	132	113	98	85	75
16/18		317	270	233	203	178	151	129	111	97	85
16/16		358	305	263	229	195	164	140	120	105	92

- Notes:
1. Load tables are calculated using section 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.