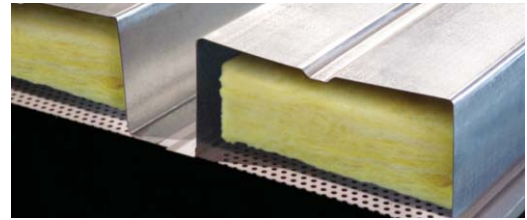
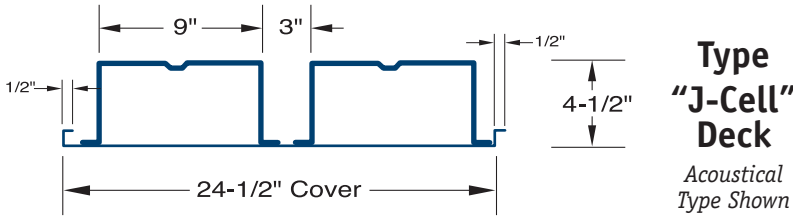
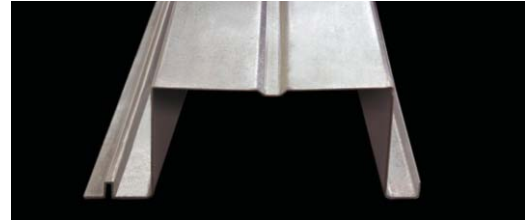
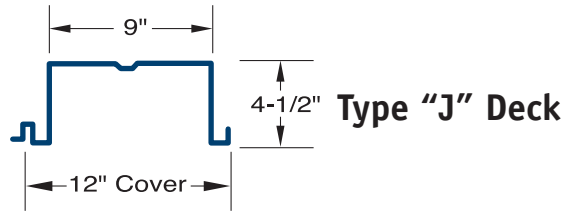


# TYPE "J" & "J-CELLULAR" (4 1/2" DEEP ROOF DECK)



## Section Properties (Fy=33 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip (In <sup>4</sup> )	In (In <sup>4</sup> )	Sp (In <sup>3</sup> )	Sn (In <sup>3</sup> )
20	.0358	2.99	2.5074	3.0054	0.9512	1.1428
18	.0474	3.82	3.5189	4.0067	1.3679	1.5776
16	.0598	4.78	4.6741	5.0735	1.8486	2.0044

- Section properties calculated in accordance with AISI specifications

Gage	Weight (psf) Glv	Ip (In <sup>4</sup> )	In (In <sup>4</sup> )	Sp (In <sup>3</sup> )	Sn (In <sup>3</sup> )
20/20	4.4	3.39	2.908	1.039	0.939
20/18	5.21	3.571	4.116	1.042	1.222
18/20	5.22	4.596	3.513	1.477	1.091
18/18	6.04	5.018	4.304	1.486	1.383
18/16	6.4	5.364	6.092	1.657	1.773
16/18	7	6.373	5.018	2.12	1.55
16/16	7.24	6.886	6.634	2.199	1.95

## Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.67	1.03	1.19	.99	.87	.77	1.0

Type	Gage	Single Span Uniform Total Load in Pounds Per Square Foot (Dead and Live)															
		8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"
J	20	109	96	87	79	72	67	62	58	50	44	38	34	31	28	25	24
J	18	184	164	147	134	123	110	94	78	66	58	50	44	39	35	32	29
J	16	284	252	227	206	175	149	122	101	85	72	63	55	48	43	39	35
JC	20/20	109	96	87	79	72	67	62	58	54	48	43	38	34	31	28	26
JC	20/18	109	96	87	79	72	67	62	58	55	49	44	39	35	32	29	27
JC	18/20	184	164	147	134	123	113	100	87	76	68	60	54	48	43	38	35
JC	18/18	184	164	147	134	123	113	101	88	77	69	61	55	49	45	41	37
JC	18/16	184	164	147	134	123	113	105	97	85	76	68	61	54	48	43	39
JC	16/18	284	252	227	206	189	166	143	124	110	95	82	71	62	55	50	45
JC	16/16	284	252	227	206	189	172	148	129	113	101	88	76	67	59	53	47

- 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 blue 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. Loads shown in the unshaded areas are controlled by a maximum stress of 20 ksi.
  4. Loads shown in the beige shaded areas are controlled by web crippling with a minimum 3" bearing.