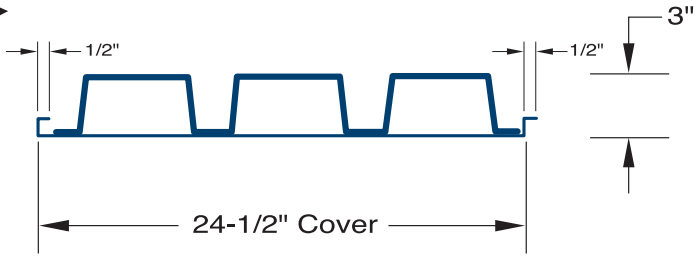
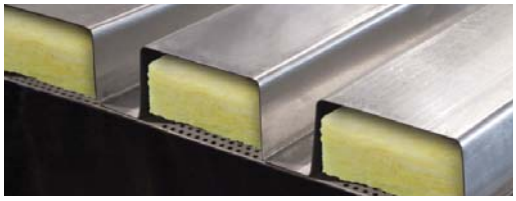
TYPE "N-CELLULAR" *(LONG SPAN)*

FM APPROVED





Type "N-Cellular" Acoustical Type Shown

Section Properties (Fy=33 ksi)

Gage Top/Bot	Weight (psf) Galv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
20/20	4.53	1.325	1.421	0.567	0.715
20/18	5.02	1.435	2.042	0.575	0.932
18/20	5.02	1.789	1.734	0.834	0.869
18/18	5.48	1.95	2.482	0.857	1.087
18/16	6.03	2.092	2.685	0.878	1.32
16/18	6.55	2.494	2.542	1.179	1.235
16/16	6.75	2.688	3.157	1.207	1.552

- Section properties calculated in accordance with AISI specifications

Helpful Hint: Type "N" cellular roof deck is utilized in exposed ceiling areas where a flat bottom deck is desired for aesthetic purposes, and the spans and loads exceed the capability of type "B" cellular.

Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.61	.84	1.19	1.09	.92	.77	**1.0**

Gage	Span Cond	Uniform Total Load in Pounds Per Square Foot (Dead and Live)									
		10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"
20/20	One	75	68	62	56	52	48	44	41	38	36
20/18		76	69	63	57	53	48	45	42	39	36
18/20		110	100	91	83	76	68	62	56	51	47
18/18		113	102	93	85	78	72	67	62	57	52
18/16		116	105	96	87	80	74	68	63	59	55
16/18		155	141	128	117	105	94	85	77	70	64
16/16		159	144	131	120	110	100	90	82	74	68
20/20	Two	94	85	78	71	65	60	56	52	48	45
20/18		123	111	101	93	85	79	73	67	63	58
18/20		114	104	95	87	79	73	68	63	58	54
18/18		143	130	118	108	99	92	85	79	73	68
18/16		174	158	144	131	121	111	103	95	89	83
16/18		163	148	134	123	113	104	96	89	83	77
16/16		204	185	169	155	142	131	121	112	104	97
20/20	Three or More	118	107	97	89	82	75	70	65	60	56
20/18		153	139	127	116	107	98	91	84	78	73
18/20		143	130	118	108	99	92	85	79	73	68
18/18		179	162	148	135	124	115	106	98	91	85
18/16		217	197	180	164	151	139	129	119	111	103
16/18		203	184	168	154	141	130	120	112	104	97
16/16		256	232	211	193	177	164	151	140	130	122

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.