



Type "N" Roof Deck

SECTION PROPERTIES

Deck Type	Design Thick.	Weight (PSF)		I in ⁴ /ft	Sp in ³ /ft	Sn in ³ /ft	Fy KSI
		Ptd.	Galv.				
N22	0.0295	2.16	2.26	0.772	0.382	0.433	33
N21	0.0329	2.40	2.50	0.876	0.445	0.497	33
N20	0.0358	2.61	2.71	0.964	0.501	0.552	33
N19	0.0418	3.05	3.15	1.153	0.597	0.659	33
N18	0.0474	3.46	3.56	1.334	0.688	0.749	33
N16	0.0598	4.36	4.46	1.745	0.893	0.944	33

Acoustical deck (Type 3 NA) is particularly suitable in structures such as auditoriums, schools and theaters 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 70% of the sound striking the deck.

ACOUSTICAL INFORMATION

Deck Type	Absorption Coefficient						Noise Reduction Coefficient*
	125	250	500	1000	2000	4000	
3NA	.14	.36	.89	.95	.53	.34	.70

VERTICAL LOADS

No. of Spans	Deck Type	Max. SDI Const. Span	Allowable Total (Dead + Live) Uniform Load (PSF)										
			Span (ft.-in.) C. to C. of Support										
			10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0	14'-6	15'-0
1	N22	11'-7	51	46	42	38	35	32	30	28	26	24	23
	N21	12'-5	59	53	47	43	39	36	33	30	28	26	25
	N20	13'-2	66	58	52	47	42	38	35	33	30	28	26
	N19	14'-7	79	69	61	55	50	45	41	38	35	32	30
	N18	15'-11	91	80	71	63	57	52	47	43	40	37	34
	N16	18'-6	119	105	93	83	74	66	60	55	50	46	43
2	N22	14'-9	58	52	48	44	40	37	34	32	29	27	26
	N21	15'-9	66	60	55	50	46	42	39	36	34	32	29
	N20	16'-6	74	67	61	56	51	47	44	40	38	35	33
	N19	18'-1	88	80	73	66	61	56	52	48	45	42	39
	N18	19'-5	100	91	83	76	69	64	59	55	51	47	44
	N16	22'-3	126	114	104	95	87	81	74	69	64	60	56
3	N22	14'-9	70	65	60	55	50	46	43	40	37		
	N21	15'-9	83	75	68	63	58	53	49	45	42		
	N20	16'-6	92	83	76	70	64	59	54	50	47		
	N19	18'-1	110	100	91	83	76	70	65	60	56		
	N18	19'-5	125	113	103	94	87	80	74	68	64		
	N16	22'-3	157	143	130	119	109	101	93	86	80		

Note 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.