

6" Deep Rib Roof Deck		Sectional Properties (per foot of width)						
	Deck Type	Gauge	Wt/ Ft ²	I _p In. ⁴	S _p +In. ³	S _n ³ -In. ³	Allowable Reaction lbs.	
							End*	Int.*
	6"	20	3.50	5.803	1.647	1.776	469	1249
	6"	18	4.63	7.683	2.332	2.387	908	2055
	6"	16	5.84	9.693	2.992	3.007	1474	3058
6"	14	7.30	12.108	3.739	3.739	2314	4453	

*End Bearing = 4"

*Intermediate Bearing = 6"

Uniform Total Load (Dead and Live) in Pounds Per Square Foot – Span Length C./C. Support												
	Single Span				Double Span				Triple Span			
Gauge	20	18	16	14	20	18	16	14	20	18	16	14
Span												
10'-0"	94	182	295	400	100	164	245	356	114	187	278	400
11'-0"	85	165	268	400*	91	149	222	324	103	170	253	368
12'-0"	78	151	246	343*	83	137	204	297	95	156	232	337
13'-0"	72	140	227	292*	77	126	188	274	87	144	214	311
14'-0"	67	130	202*	252*	71	117	175	245	81	133	199	289
15'-0"	63	121	176*	219*	67	110	163	215	76	125	185	265
16'-0"	59	113	154*	193*	62	103	150	189	71	117	174	234
17'-0"	55	106	137*	171*	59	97	134	168				
18'-0"	52	95*	119	146	56	91	119	150				
19'-0"	49	84	103	126	53	83	108	135				
20'-0"	47	73	90	109	50	75	97	122				
21'-0"	45	64	79	96	47	68	88	111				
22'-0"	43	57	70	85	43	62	81	101				
23'-0"	41	51	62	75	40	57	74	92				
24'-0"	38	46	56	68	37	53	68	85				
25'-0"	34	42	51	61								
26'-0"	32	39	46	55								
27'-0"		36	42	50								
28'-0"		33	39	46								
29'-0"		31	36	43								
30'-0"			34	39								
31'-0"			31	37								
32'-0"				34								
33'-0"				32								
34'-0"				30								

- Notes: 1. Loads in shaded areas are governed by live load deflection not in excess of 1/240. As assumed 10 psf dead load is added to deflection.
2. Loads with asterisks (*) are governed by the allowable flexural stress limit of 20 ksi.
3. All other loads are governed by the end or intermediate reactions listed above.
4. For acoustical decks, reduce the uniform total loads by 5%.

All data taken from manufacturer's catalogs and is presented for estimating purposes only.

Section properties have been determined in accordance with the American Iron and Steel Institute's Specifications for the Design of Cold Formed Steel Structural Members.

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CARRON AND COMPANY