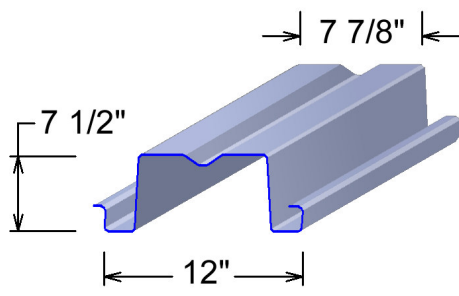


7.5" Deep Rib Roof Deck		Sectional Properties (per foot of width)						
	Deck Type	Gauge	Wt/ Ft <sup>2</sup>	I <sub>p</sub> In. <sup>4</sup>	S <sub>p</sub> +In. <sup>3</sup>	S <sub>n</sub> <sup>3</sup> -In. <sup>3</sup>	Allowable Reaction lbs.	
							End*	Int.*
	7 1/2"	20	3.84	9.704	2.069	2.234	417	1156
	7 1/2"	18	5.09	12.848	3.159	3.227	839	1947
	7 1/2"	16	6.42	16.209	4.053	4.073	1391	2936
7 1/2"	14	8.02	20.248	5.069	5.069	2214	4315	

\*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"	83	168	278	400	92	156	235	345	104	177	267	392
11'-0"	76	153	253	400	84	142	214	314	95	161	243	357
12'-0"	70	140	232	369	77	130	196	288	87	147	222	327
13'-0"	64	129	214	341	71	120	181	266	80	136	205	302
14'-0"	60	120	199	316	66	111	168	247	74	126	191	280
15'-0"	56	112	185	295	62	104	157	230	70	118	178	261
16'-0"	52	105	174	261*	58	97	147	216	65	111	167	245
17'-0"	49	99	164	232*	54	92	138	203				
18'-0"	46	93	155	207*	51	87	130	192				
19'-0"	44	88	146	185*	49	82	124	181				
20'-0"	42	84	134*	167*	46	78	117	163				
21'-0"	40	80	121*	152*	44	74	112	149				
22'-0"	38	76	110	135	42	71	106	136				
23'-0"	36	73	97	119	40	68	97	124				
24'-0"	35	70	87	106	39	65	90	114				
25'-0"	33	64	78	95								
26'-0"	32	58	71	86								
27'-0"	31	53	64	78								
28'-0"	30	48	58	71								
29'-0"		45	54	65								
30'-0"		41	49	59								
31'-0"		38	46	55								
32'-0"		36	42	51								
33'-0"		33	40	47								
34'-0"		31	37	44								
35'-0"		30	35	41								

- 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**