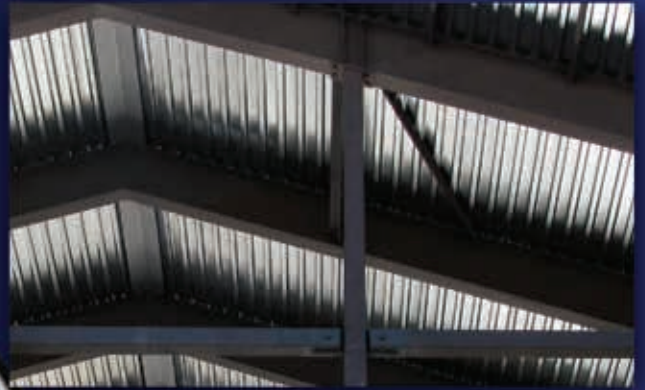
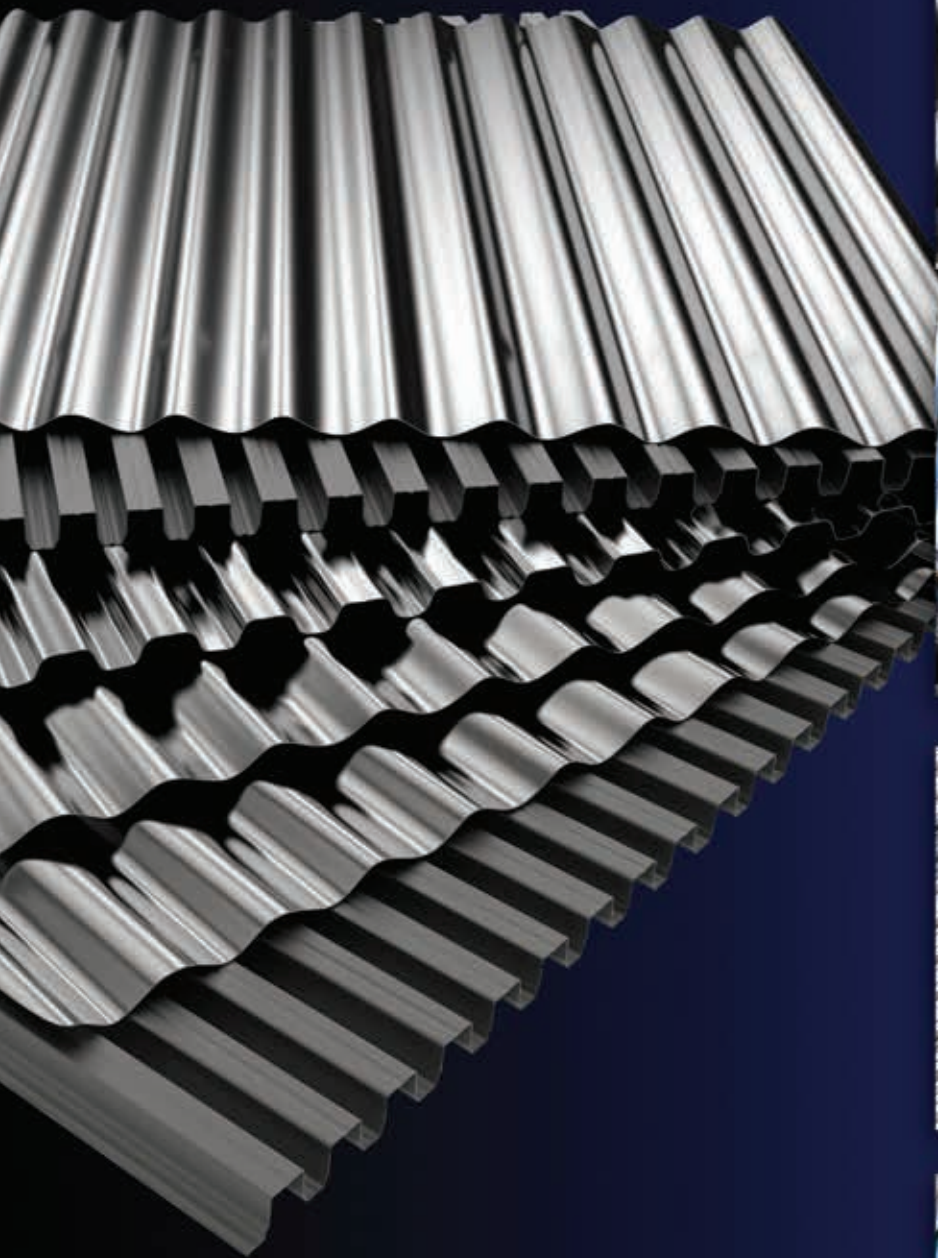




# Corrosion Resistant Metals for Corrosive Environments



## PRODUCT CATALOG



A close-up, low-angle shot of a corrugated metal roof. The metal panels are arranged in a repeating pattern, with the ridges and valleys creating a strong sense of depth and perspective. The lighting is bright, highlighting the metallic texture and the sharp edges of the corrugations.

# James River Steel

## Corrugated Metals































Welcome to James River Steel, Inc. James River Steel, Inc. is a Virginia based manufacturer of stainless steel, aluminum, and galvanized steel for industrial and architectural roofing, siding and decking. Our materials are used typically in high corrosive industrial environments where corrosion resistance is paramount. We specialize in corrugated stainless steel roof decks, floor decks and siding, often an effective solution in life cycle cost comparisons.

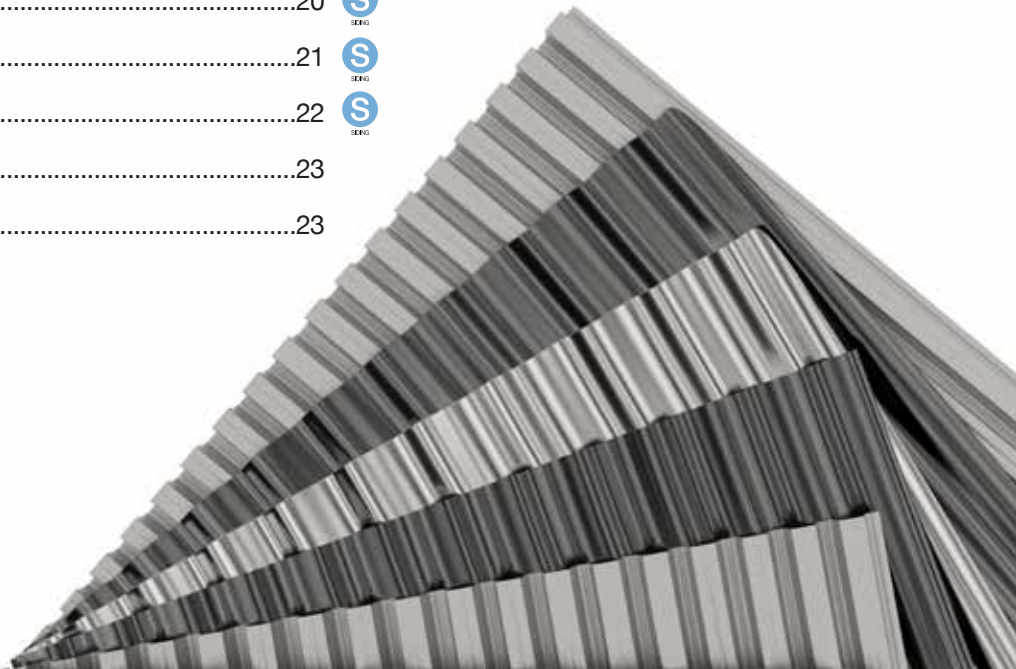
James River Steel, Inc. is headquartered in Ashland, Virginia. We service the entire United States along with Canada and parts of Europe. Please visit our website to learn more about the high quality products we supply and visit our Completed Projects list to view a few of the many companies that James River Steel has supplied products to over the years. As the leader in the corrugated steel industry, James River Steel, Inc. prides itself in product knowledge, customer satisfaction and timely deliveries. We have added various new features to our site in order to better serve you.

We welcome any comments or suggestions that may increase customer satisfaction.



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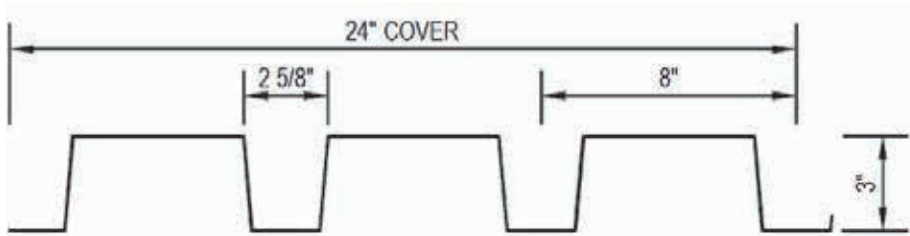
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# Type N Deck

## Long Span Metal Deck

The 3" depth allows for longer spans not possible with lesser depth profiles. The increased span capability allows the use of a lighter gauge, which can prove to be cost effective. Also, because of its long span capability, the use of the N Decking will minimize support requirements. The narrow spacing between the ribs of the N Deck allows for rigid insulation or pouring concrete. The load carrying capabilities of the N Deck generally surpass that of other long span metal decks. N Deck is available in stainless steel, both T304 and T316, and is suited for caustic environments. It is also available in galvanized and prime painted steel.



### SECTION PROPERTIES (Fy=33ksi)

Gage	Design Thickness	Weight Ptd	(Psf) Galy	Ip (In4)	Is (In4)	Sp (In3)	Sn (In3)
22	0.0295	2.01	2.05	0.616	0.829	0.355	0.430
20	0.0358	2.58	2.65	0.795	1.026	0.468	0.543
18	0.0474	3.20	3.40	1.158	1.369	0.685	0.749
16	0.0598	4.10	4.25	1.586	1.736	0.894	0.953
14	0.0747	5.12	5.35	2.119	2.273	1.149	1.196
12	0.1046	7.17	7.40	3.056	3.055	1.664	1.669

Section Properties calculated in accordance with AISI specifications.

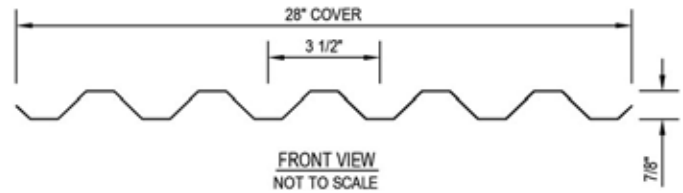
Gage	SpanCond	Max SDI Const Sp	Uniform Total Load in Pounds Per Square Foot (Dead and Live)										
			9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"
22	One	11'-3"	57	51	46	42	38	35	32	-	-	-	-
20		12'-9"	76	68	61	55	49	44	40	36	33	31	-
18		15'-5"	111	98	85	75	67	59	53	48	44	40	37
16		18'-0"	145	130	113	99	88	78	70	63	57	52	47
14		20'-10"	187	168	148	129	114	101	90	81	73	66	60
12		25'-0"	-	-	-	183	160	141	125	112	101	91	83
22	Two	13'-3"	70	62	56	51	46	42	39	36	33	31	-
20		15'-0"	88	79	71	64	59	54	49	45	42	39	36
18		18'-2"	122	109	98	89	81	74	68	63	58	54	50
16		22'-0"	155	139	125	114	103	95	87	80	74	68	64
14		24'-7"	194	174	157	143	130	119	109	101	93	86	80
12		29'-6"	-	-	-	199	182	166	153	141	130	120	112
22	Three or More	13'-3"	87	78	70	64	58	53	49	45	42	38	36
20		15'-0"	110	99	89	81	73	67	62	57	52	49	45
18		18'-2"	152	136	123	112	102	93	85	79	73	67	62
16		22'-0"	194	174	157	142	129	118	109	100	93	86	80
14		-	-	-	197	178	163	149	137	126	116	108	100
12		-	-	-	-	-	-	-	191	176	162	151	140

# HD Panel

## Heavy Duty Roofing & Siding



The HD Panel presents a unique opportunity to provide a product in a rib profile similar to the 2.67 x 7/8" corrugated sine wave shape. The HD Panel offers greater load carrying capability as well as a bolder appearance due to its increased pitch. The HD Panel (heavy duty) as its name implies is especially useful when increased load carrying capability is required on siding applications. It is uniquely suited for both roofing and siding applications. HD Panel is available in galvanized steel.



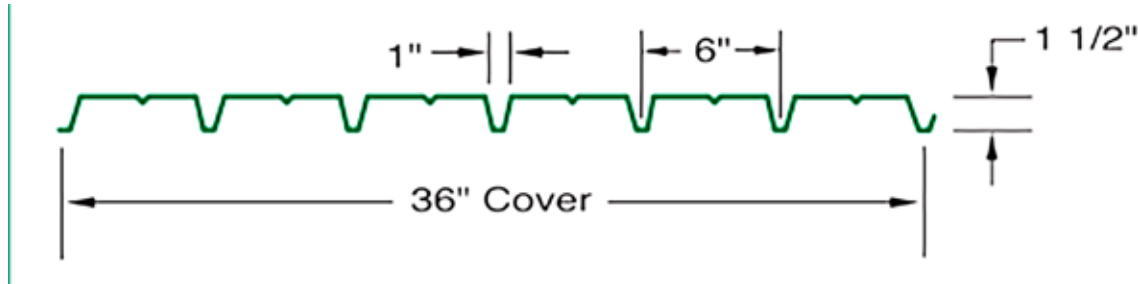
Type No.	Design Thickness	Lbs./Ft. 2 CLD-RLD	Lbs./Ft. 2 Galv	I In. 4 Ft.	S In. 3 Ft.
HD 26	0.0179	0.96	1.06	0.037	0.073
HD 24	0.0239	1.28	1.38	0.050	0.097
HD 22	0.0295	1.57	1.67	0.061	0.119
HD 20	0.0368	1.91	2.01	0.074	0.144

Type No.	No. of Spans	Design	3'0"	3'6"	4'0"	4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	8'6"	9'0"	9'6"	10'0"
HD26	1 Span	Stress 36,000	195	143	110	87	70	58	49	41	36	31	27	24	22	19	18
		L/240	90	57	38	27	19	15	11	9	7	6	5	4	3	3	2
		L/180	120	78	51	38	26	19	15	12	9	8	6	5	4	4	3
		SDI Criteria	95	57	34	20	10	3									
	2 Span	Stress 36,000	195	143	110	87	70	58	49	41	38	31	27	24	22	19	18
		L/240	195	136	91	64	47	35	27	21	17	14	11	10	8	7	6
		L/180	195	143	110	88	62	47	36	28	23	18	15	13	11	9	8
		SDI Criteria	148	96	63	42	28	18	11	5	1						
	3 Span	Stress 36,000	243	179	137	108	88	72	61	52	45	39	34	30	27	24	22
		L/240	170	107	72	50	37	28	21	17	13	11	9	7	6	5	5
		L/180	226	142	95	67	49	37	28	22	18	14	12	10	8	7	6
		SDI Criteria	152	99	66	44	29	19	12	6	2						
		Stress 36,000	259	190	145	115	93	77	65	55	48	41	36	32	29	26	23
HD24	1 Span	L/240	122	77	51	36	26	0.20	15	12	10	8	6	5	5	4	3
		L/180	162	102	68	48	35	26	20	18	13	10	9	7	6	5	4
		SDI Criteria	159	102	68	48	35	22	15	9	5	1					
		Stress 36,000	259	190	145	115	93	77	65	55	48	41	36	32	29	26	23
	2 Span	L/240	259	184	123	87	63	48	37	29	23	19	15	13	11	9	8
		L/180	259	190	145	115	84	63	49	38	31	25	21	17	14	12	11
		SDI Criteria	231	157	110	79	58	43	31	23	17	12	8	5	2		
		Stress 36,000	323	238	182	144	116	96	81	69	59	52	45	40	36	32	29
	3 Span	L/240	229	144	97	68	49	37	29	23	18	15	12	10	8	7	6
		L/180	305	192	129	91	66	50	38	30	24	20	16	13	11	10	8
		SDI Criteria	238	162	114	82	60	44	33	24	18	12	8	5	3	1	
		Stress 36,000	317	233	178	141	114	94	79	68	58	51	45	40	35	32	29
HD22	1 Span	L/240	148	93	63	44	32	24	19	15	12	9	8	7	5	5	4
		L/180	198	125	83	59	43	32	25	19	16	13	10	9	7	8	5
		SDI Criteria	198	125	83	59	43	32	25	19	15	11	7	4	2		
		Stress 36,000	317	233	178	141	114	94	79	68	58	51	45	40	35	32	29
	2 Span	L/240	317	225	151	106	77	58	45	35	28	23	19	16	13	11	10
		L/180	317	233	178	141	103	77	60	47	37	30	25	21	18	15	13
		SDI Criteria	297	213	153	113	85	65	50	39	31	24	18	14	11	8	5
		Stress 36,000	397	291	223	176	143	118	99	84	73	63	56	49	44	40	36
	3 Span	L/240	279	176	118	83	60	45	35	27	22	18	15	12	10	9	8
		L/180	373	235	157	110	80	60	47	37	29	24	20	16	14	12	10
		SDI Criteria	316	219	157	110	80	60	47	37	29	24	19	15	11	8	6
		Stress 36,000	384	282	216	171	138	114	96	82	71	61	54	48	43	38	35
HD20	1 Span	L/240	180	113	76	53	39	29	22	18	14	12	9	8	7	6	5
		L/180	240	151	101	71	52	39	30	24	19	15	13	11	9	8	6
		SDI Criteria	240	151	101	71	52	39	30	24	19	15	13	11	9	7	5
		Stress 36,000	384	282	216	171	138	114	96	82	71	61	54	48	43	38	35
	2 Span	L/240	384	273	183	128	94	70	54	43	34	28	19	16	14	12	10
		L/180	384	282	218	171	125	94	72	57	45	37	25	21	18	16	14
		SDI Criteria	384	262	196	151	117	91	72	57	45	37	25	20	17	14	12
		Stress 36,000	480	353	270	213	173	143	120	102	88	77	68	60	53	48	43
	3 Span	L/240	339	214	143	100	73	55	42	33	27	22	18	15	13	11	9
		L/180	452	285	191	134	98	73	57	44	36	29	24	20	17	14	12
		SDI Criteria	390	281	191	134	98	73	57	44	36	29	24	20	17	14	12
		Stress 36,000	480	353	270	213	173	143	120	102	88	77	68	60	53	48	43

# Type A Deck



Type A Deck is mostly used as a retrofit to match existing deck. This metal decking, also known as narrow rib deck, is produced in galvanized steel.



## SECTION PROPERTIES (Fy=33ksi)

Gage	Design Thickness	Weight Ptd	(Psf) Galy	Ip (In4)	In (In4)	Sp (In3)	Sn (In3)
22	0.0295	1.65	1.70	0.144	0.143	0.132	0.131
20	0.0358	2.09	2.15	0.175	0.175	0.160	0.159
18	0.0474	2.71	2.80	0.232	0.232	0.211	0.211
16	0.0598	3.30	3.40	0.294	0.294	0.266	0.266

Section Properties calculated in accordance with AISI specifications.

Gage	Span Cond	Max SDI Const Sp	Uniform Total Load in Pounds Per Square Foot (Dead and Live)										
			4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"
22	One	5'-5"	108	85	69	57	48	41	35	30			
20		6'-0"	131	104	84	69	58	49	43	37	32		
18		6'-11"	174	137	111	92	77	65	54	46	39	34	30
16		7'-9"		173	140	116	97	0	-	55	47	41	-
22	Two	6'-4"	108	85	69	.57	48	40	35	30			
20		7'-0"	131	103	84	69	58	49	42	37	32		
18		8'-1"	174	137	111	92	77	66	56	49	43	38	34
16		9'-1"		173	140	116	97	83	71	62	54	48	43
22	Three or More	6'-4"	135	106	86	71	60	51	44	38	33		
20		7'-0"	164	129	105	86	73	62	53	46	41	36	32
18		8'-1"		172	139	115	96	82	71	62	54	48	43
16		9'-1"			175	145	122	104	89	78	68	60	54

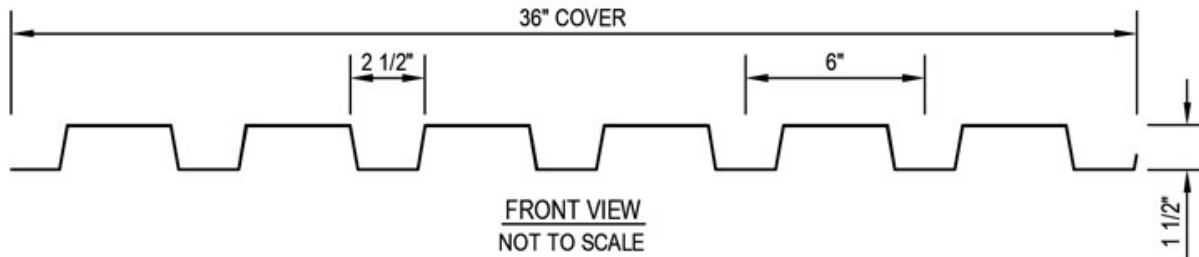
## Notes:

- Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
- 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.

# Type B Deck

Stainless, Galvanized, Aluminum, Painted

The Type B Wide Rib is the industry standard for industrial roofing and is as popular for floor decking. It can be produced in galvanized steel, prime painted steel, aluminum and stainless steel. All lengths are produced to custom requirements. Standard width is 36" coverage, limited availability in 30" coverage. This product has excellent load carrying capabilities. The wide rib allows for a narrow top opening, which is desired when rigid insulation is to be used on top of the deck.



## SECTION PROPERTIES (Fy=33ksi)

Gage	Design Thickness	Weight Ptd	(Psf) Galy	Ip (In4)	In (In4)	Sp (In3)	Sn (In3)
22	0.0295	1.58	1.61	0.158	0.180	0.183	0.189
20	0.0358	1.98	2.04	0.203	0.220	0.226	0.234
18	0.0474	2.60	2.70	0.291	0.293	0.307	0.313
16	0.0598	3.10	3.20	0.370	0.370	0.394	0.396
14	0.0747	4.00	4.10	0.463	0.463	0.491	0.491
12	0.1046	5.80	5.95	0.652	0.652	0.681	0.681

Section Properties calculated in accordance with AISI specifications.

Gage	SpanCond	Max SDI	Uniform Total Load in Pounds Per Square Foot (Dead and Live)										
		Const Sp	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"
22	One	5'-9"	92	72	57	47	40	34	30	-	-	-	-
20		6'-6"	116	90	71	58	48	41	36	31	-	-	-
18		7'-9"	162	124	98	79	65	55	47	41	36	32	-
16		8'-9"	-	155	122	98	80	67	57	49	43	38	34
14		9'-8"	-	192	150	120	98	82	69	59	51	45	40
12		11'-8"	-	-	-	165	134	111	93	79	68	59	52
22	Two	6'-8"	100	83	69	59	51	44	39	44	39	34	31
20		7'-7"	123	102	85	73	63	54	48	42	38	34	30
18		9'-1"	165	136	114	97	84	73	64	57	50	45	41
16		10'-3"	-	172	145	123	106	92	81	72	64	57	52
14		11'-6"	-	-	180	153	132	115	101	89	80	71	64
12		13'-7"	-	-	-	-	183	159	140	124	110	99	89
22	Three or More	6'-8"	125	104	87	74	64	55	48	41	36	32	-
20		7'-7"	154	127	107	91	78	68	59	51	44	39	35
18		9'-1"	-	170	143	122	105	91	80	68	59	52	46
16		10'-3"	-	-	181	154	133	116	99	84	73	63	55
14		11'-6"	-	-	-	191	165	144	122	103	88	77	67
12		13'-7"	-	-	-	-	-	199	168	141	120	104	90

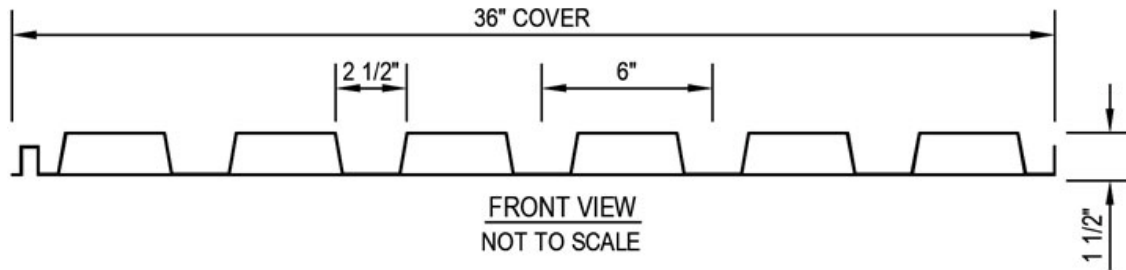
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.

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 had been included.

# Type B Cellular Deck



Type B Cellular Deck is mainly used in exposed ceiling areas where a flat bottom deck is wanted for aesthetic purposes. This is available in stainless steel and galvanized steel. Acoustical cellular deck is also available.



Gage Top/Bot	Weight (psf) Galv	Ip (In4)	In (In4)	Sp(In3)	Sn(In3)
20/20	3.53	0.383	0.301	0.301	0.311
20/18	4.02	0.408	0.378	0.308	0.392
18/20	4.48	0.518	0.378	0.451	0.401
18/18	5.11	0.554	0.451	0.458	0.471
18/16	5.58	0.602	0.645	0.471	0.548
16/18	5.58	0.708	0.538	0.642	0.561

Gage	SpanCond	Uniform Total Load in Pounds Per Square Foot (Dead and Live)									
		6'- 0"	6'- 6"	7'- 0"	7'- 6"	8'- 0"	8'- 6"	9'- 0"	9'- 6"	10'- 0"	10'- 6"
20/20	One	108	93	80	66	57	48	41	37	32	29
20/18		113	96	81	71	60	51	44	38	34	31
18/20		165	131	108	89	74	63	54	48	41	36
18/18		168	141	115	94	80	68	59	50	45	40
18/16		170	146	122	101	85	71	61	54	46	41
16/18		224	177	143	118	99	82	71	60	54	47
20/20	Two	111	95	80	70	61	55	49	42	38	34
20/18		138	118	101	89	77	68	60	55	48	44
18/20		144	121	104	90	80	70	62	56	50	45
18/18		167	141	122	107	94	83	74	67	60	54
18/16		195	168	141	125	111	98	86	77	69	66
16/18		200	170	148	128	112	101	89	79	70	67
20/20	Three or More	138	117	101	87	77	69	60	55	48	45
20/18		171	147	126	110	96	85	79	69	60	51
18/20		178	151	131	114	100	89	78	71	64	58
18/18		208	177	152	133	117	104	93	84	74	67
18/16		240	205	178	152	137	119	110	94	82	71
16/18		250	213	182	161	140	125	111	110	90	83

1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.

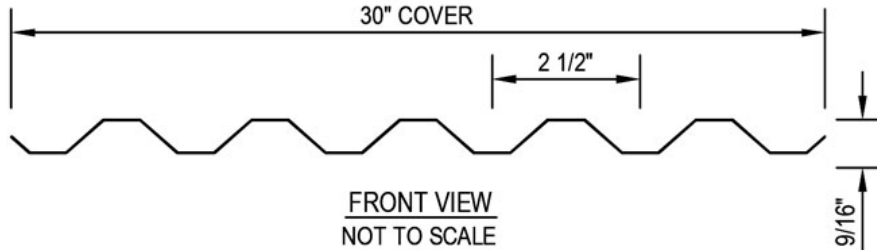
2. Loads shown in the shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 psf had been included.



# Type S Form Deck



Type S Deck is formed to yield a continuous pattern of 9/16" high ribs on 2.67" centers and engineered for maximum structural stiffness. This form deck can be used when a non-composite slab is required and the clear span is short. S Deck is available in stainless steel and galvanized steel.



## SECTION PROPERTIES (Fy=80ksi)

Gage	Design Thickness	Weight (psf) GIV	Ip(In4)	Sp(In3)	Sn(In3)
28	0.0149	0.85	0.012	0.035	0.035
26	0.0179	1.02	0.014	0.045	0.045
24	0.0238	1.30	0.019	0.060	0.060
22	0.0295	1.55	0.023	0.074	0.074

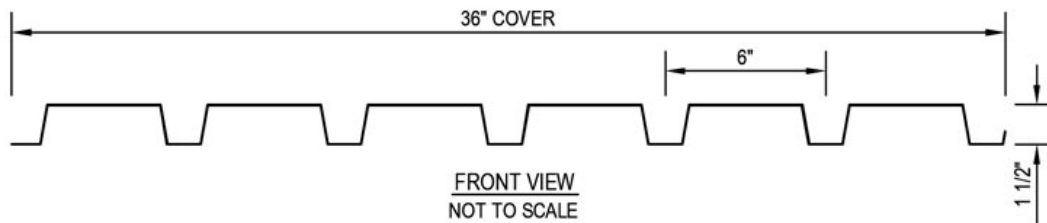
Section Properties calculated in accordance with AISI specifications.

Span Condition	Gage	Design Criteria	Uniform Total Load in Pounds Per Square Foot (Dead and Live)								
			2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
One	28	36000	211	135	94	69	52	41	33		
		L240	94	48	28						
		L180	126	64	37	23					
	26	36000	267	171	118	87	66	52	42		
		L240	114	58	33	21					
		L180	152	77	45	28					
	24	36000	*	231	160	118	90	71	57	47	40
		L240	151	77	45	28					
		L180	202	103	60	37	25				
	22	36000	*	284	197	145	111	87	71	58	49
		L240	188	96	55	35	23				
		L180	251	128	74	46	31			1'	
Two	28	36000	221		98	72	55	43	35		
		L240	228	117	67	42	28	20	~\		
		L180	*	156	90	56	38	26			
	26	36000	270	173	120	88	67	53			
		L240	275	140	81	51	34	24			
		L180		187	108	68	45	32			
	24	36000		231	160	118	90	71	57	47	40
		L240		187	108	68	45	32	23		
		L180		249	144	91	61	42	31		
	22	36000		284	197	145	111	87	71	58	49
		L240		232	134	84	56	39	29	21	
		L180			179	113	75	53	38	29	
Three or More	28	36000	273	177	123	90	69	54	44		
		L240	179	92	53	33	22				
		L180	239	122	71	44	29				
	26	36000	*	216	150	110	84	66	54		
		L240	216	110	64	40	27				
		L180	288	147	85	53	36				
	24	36000	*	289	200	147	112	89	72	59	50
		L240	287	147	85	53	35	25			
		L180	*	196	113	71	47	33			
	22	36000	*		247	181	139	109	89	73	61
		L240		182	105	66	44	31	22		
		L180		243	141	88	59	41	30		

# Type F Deck (Intermediate Rib)

## Roofing & Siding

Type F Intermediate Rib is an older deck profile still widely used, particularly where roofs must nest with an existing Type F roof. All attributes that apply to B deck also apply to F deck. Load carrying capabilities for Type F deck Rib are less than Type B deck.



### SECTION PROPERTIES (Fy=33ksi)

Gage	Design Thickness	Weight Ptd	(Psf) Galy	Ip (In4)	Is (In4)	Sp (In3)	Sn (In3)
22	0.0295	1.58	1.61	0.134	0.154	0.134	0.145
20	0.0358	1.98	2.04	0.172	0.187	0.165	0.176
18	0.0474	2.60	2.70	0.245	0.248	0.226	0.232
16	0.0598	3.10	3.20	0.314	.0314	0.290	0.292

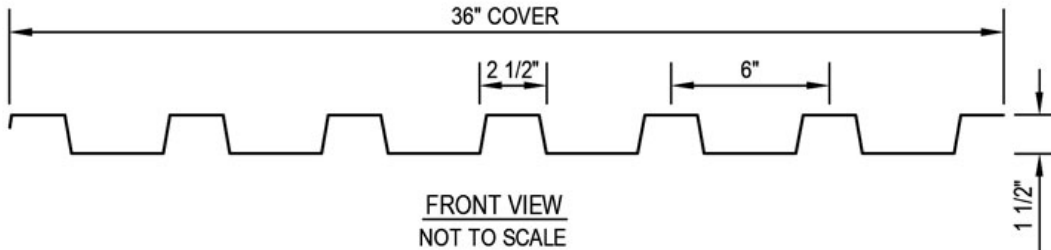
Section Properties calculated in accordance with AISI specifications

Gage	SpanCond	Max SDI	Uniform Total Load in Pounds Per Square Foot (Dead and Live)										
		Const Sp	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"
22	One	11'-3"	57	51	46	42	38	35	32	-	-	-	-
20		12'-9"	76	68	61	55	49	44	40	36	33	31	-
18		15'-5"	111	98	85	75	67	59	53	48	44	40	37
16		18'-0"	145	130	113	99	88	78	70	63	57	52	47
14		20'-10"	187	168	148	129	114	101	90	81	73	66	60
12		25'-0"	-	-	-	183	160	141	125	112	101	91	83
22	Two	13'-3"	70	62	56	51	46	42	39	36	33	31	-
20		15'-0"	88	79	71	64	59	54	49	45	42	39	36
18		18'-2"	122	109	98	89	81	74	68	63	58	54	50
16		22'-0"	155	139	125	114	103	95	87	80	74	68	64
14		24'-7"	194	174	157	143	130	119	109	101	93	86	80
12		29'-6"	-	-	-	199	182	166	153	141	130	120	112
22	Three or More	13'-3"	87	78	70	64	58	53	49	45	42	38	36
20		15'-0"	110	99	89	81	73	67	62	57	52	49	45
18		18'-2"	152	136	123	112	102	93	85	79	73	67	62
16		22'-0"	194	174	157	142	129	118	109	100	93	86	80
14		-	-	-	197	178	163	149	137	126	116	108	100
12		-	-	-	-	-	-	-	191	176	162	151	140

# Type BI Inverted Form Deck

## 18, 20, 22 Gauge

Type "B" inverted form deck is used when the spans and loads exceed the capability of standard and heavy-duty form decks. This deck is available in stainless steel and galvanized steel.



### SECTION PROPERTIES (Fy=33ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip (In4)	Sp(In3)	Sn(In3)
22	0.0295	1.61	0.188	0.192	0.187
20	0.0358	2.04	0.230	0.243	0.232
18	0.0474	2.70	0.305	0.616	0.315

Section Properties calculated in accordance with AISI specifications.

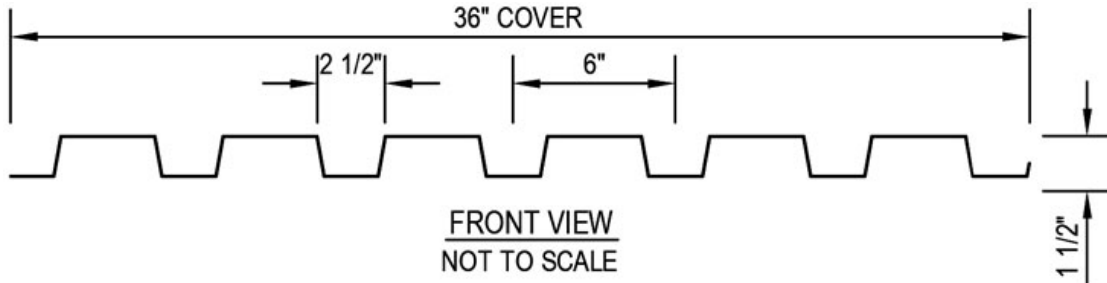
Span Condition	Design Gage	Uniform Total Load in Pounds Per Square Foot (Dead and Live)									
		Criteria	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"
One	22	36000	101	83	70	60	51	45	39	35	-
		L/240	98	74	57	44	36	29	24	20	-
		L/180	-	-	-	59	48	39	32	26	-
	20	36000	128	105	89	75	65	57	50	44	39
		L/240	120	90	69	54	43	35	29	24	20
		L/180	-	-	93	73	58	47	39	32	27
	18	36000	171	142	119	101	87	76	67	59	53
		L/240	160	120	92	72	58	47	39	32	27
		L/180	-	-	123	97	77	63	52	43	36
	Two	36000	98	81	68	58	50	43	38	34	30
		L/240	-	-	-	-	86	70	58	48	40
		L/180	-	-	-	-	-	-	77	64	54
		36000	122	101	84	72	62	54	47	42	37
		L/240	-	-	-	-	-	-	70	59	49
		L/180	-	-	-	-	-	-	-	-	-
Three or More	22	36000	123	101	85	72	62	54	48	42	38
		L/240	-	-	-	85	68	55	45	38	32
		L/180	-	-	-	-	-	73	60	50	42
	20	36000	152	126	106	90	78	67	59	52	47
		L/240	-	-	-	103	83	67	55	46	39
		L/180	-	-	-	-	-	90	74	61	52
	18	36000	208	172	144	12	106	92	81	72	64
		L/240	-	-	-	-	110	89	74	61	51
		L/180	-	-	-	-	-	-	-	-	69



# 1-1/2" Composite Deck

16, 18, 20, 22 Gauge

1-1/2" Composite Deck is available in galvanized steel, and stainless steel. Composite Deck is meant to be used as a floor deck where concrete is to be poured on top of the deck. The web in the deck contains indentations, which allow for better bonding between concrete and deck, and therefore forms the Composite Deck. Temporary shoring may be required during construction. Consult the catalog for spans where shoring is required. 1 1/2" Composite comes roll formed to any custom length required and comes in a 36". Again, this product is readily available in stainless steel where corrosion resistance is critical. Stainless steel decks provide the ability to prevent deterioration associated with conventional galvanized deck. Both types 304 and 316 are available.



## SECTION PROPERTIES (Fy=40ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip(In4)	Sp(In3)	Sn(In3)
22	0.0295	1.61	0.154	0.180	0.187
20	0.0358	2.04	0.200	0.229	0.240
18	0.0474	2.70	0.290	0.312	0.324
16	0.0598	3.20	0.387	0.402	0.409

Section Properties calculated in accordance with AISI specifications.

Gage	SpanCond	Max SDI	Uniform Total Load in Pounds Per Square Foot (Dead and Live)										
		Const Sp	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"
22	One	5'-9"	92	72	57	47	40	34	30	-	-	-	-
20		6'-6"	116	90	71	58	48	41	36	31	-	-	-
18		7'-9"	162	124	98	79	65	55	47	41	36	32	-
16		8'-9"	-	155	122	98	80	67	57	49	43	38	34
14		9'-8"	-	192	150	120	98	82	69	59	51	45	40
12		11'-8"	-	-	-	165	134	111	93	79	68	59	52
22	Two	6'-8"	100	83	69	59	51	44	39	44	39	34	31
20		7'-7"	123	102	85	73	63	54	48	42	38	34	30
18		9'-1"	165	136	114	97	84	73	64	57	50	45	41
16		10'-3"	-	172	145	123	106	92	81	72	64	57	52
14		11'-6"	-	-	180	153	132	115	101	89	80	71	64
12		13'-7"	-	-	-	-	183	159	140	124	110	99	89
22	Three or More	6'-8"	125	104	87	74	64	55	48	41	36	32	-
20		7'-7"	154	127	107	91	78	68	59	51	44	39	35
18		9'-1"	-	170	143	122	105	91	80	68	59	52	46
16		10'-3"	-	-	181	154	133	116	99	84	73	63	55
14		11'-6"	-	-	-	191	165	144	122	103	88	77	67
12		13'-7"	-	-	-	-	-	199	168	141	120	104	90

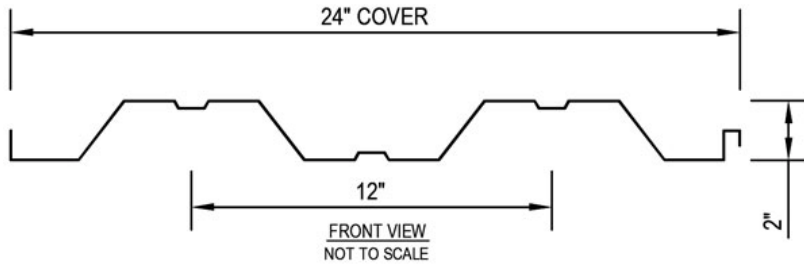
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.

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 had been included.

## 2" Composite Deck

### Galvanized Steel & Stainless 304 -316

2" Composite is available in galvanized steel, and stainless steel. Composite Deck is meant to be used as a floor deck where concrete is to be poured on top of the deck. The web in the deck contains indentations, which allow for better bonding between concrete and deck, and therefore forms the Composite Deck. Temporary shoring may be required during construction. Consult the catalog for spans where shoring is required. 2" Composite comes roll formed to any custom length required and comes in a 24" width and has an interlocking side lap. Again, this product is readily available in stainless steel where corrosion resistance is critical. Stainless steel Decks provide the ability to prevent deterioration associated with conventional galvanized deck. Both types 304 and 316 are available. Also available in 36" cover.



SECTION PROPERTIES (Fy=40ksi)

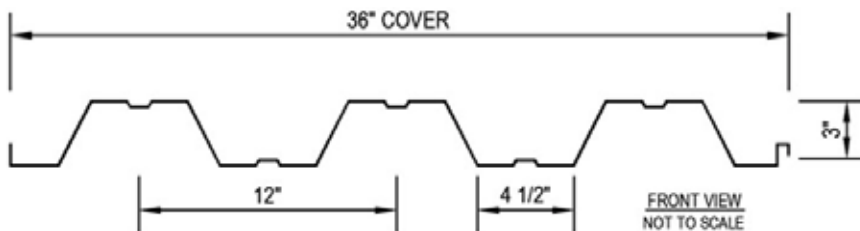
Gage	Design Thickness	Weight (psf) Glv	Ip(In4)	Sp(In3)	Sn(In3)
22	0.0295	1.65	0.339	0.269	0.276
20	0.0358	2.05	0.419	0.350	0.360
18	0.0474	2.70	0.565	0.507	0.516
16	0.0598	3.30	0.714	0.658	0.655

Section Properties calculated in accordance with AISI specifications.

## 3" Composite Deck

### 16, 18, 20, 22 Gauge

3" Composite is available in galvanized steel, and stainless steel. Composite Deck is meant to be used as a floor deck where concrete is to be poured on top of the deck. The web in the deck contains indentations, which allow for better bonding between concrete and deck, and therefore forms the Composite Deck. Temporary shoring may be required during construction. Consult the catalog for spans where shoring is required. 3" Composite comes roll formed to any custom length required and comes in a 36" width and has an interlocking side lap. Again, this product is readily available in stainless steel where corrosion resistance is critical. Stainless steel Decks provide the ability to prevent deterioration associated with conventional galvanized deck. Both types 304 and 316 are available.



SECTION PROPERTIES (Fy=40ksi)

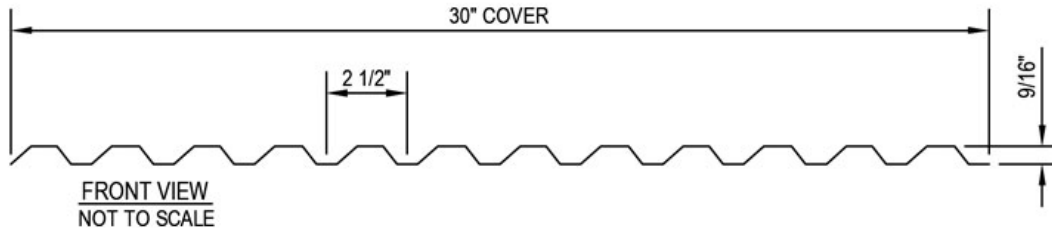
Gage	Design Thickness	Weight (psf) Glv	Ip(In4)	Sp(In3)	Sn(In3)
22	0.0295	1.75	0.774	0.435	0.460
20	0.0358	2.03	0.968	0.559	0.582
18	0.0474	2.75	1.277	0.780	0.780
16	0.0598	3.50	1.614	0.991	0.986

Section Properties calculated in accordance with AISI specifications.

# 2-1/2" Rib

## 26, 28 Gauge

The 2-1/2 " Rib panel can be used to replace conventional 2-1/2" CORRUGATED siding panels while at the same time, allowing for vastly improved carrying capabilities as well as giving more of the appearance of a building panel.



### SECTION PROPERTIES (PER FT. OF WIDTH)

Gage	BLK G	PSF	ALV	I (in4/ft)	Sp (in3/ft)	Sn (in3/ft)
28	0.800		.95	0.0120	.0360	.039
26	0.951		.10	0.0150	.0460	.048

Span Limiting UNIFORM TOTAL LOADS IN POUNDS PER SQ. FT (DEAD & ALIVE) Gage Condition Condition									
Gage	Span Condition	Limiting Condition	UNIFORM TOTAL LOADS IN POUNDS PER SQ. FT (DEAD & ALIVE)						
28	SINGLE	Stress	218	138	95	71	54	43	35
		1/240	98	50	29	18	12	9	6
		1/180	131	87	39	25	16	12	8
	DOUBLE	Stress	234	150	104	76	59	48	37
		1/240	*	121	70	44	30	21	15
		1/180	*	*	94	59	40	28	20
	3 OR MORE	Stress	293	187	130	96	73	58	47
		1/240	186	5	55	35	23	16	12
		1/180	247	127	73	48	31	22	16
26	SINGLE	Stress	276	177	123	90	69	55	44
		1/240	123	63	36	23	15	11	8
		1/180	164	84	49	31	21	14	11
	DOUBLE	Stress	288	184	128	94	72	57	46
		1/240		152	88	55	37	28	19
		1/180		*	117	74	49	35	25
	3 OR MORE	Stress	360	230	160	118	90	71	58
		1/240	232	110	69	43	29	20	15
		1/180	303	158	92	58	39	27	20

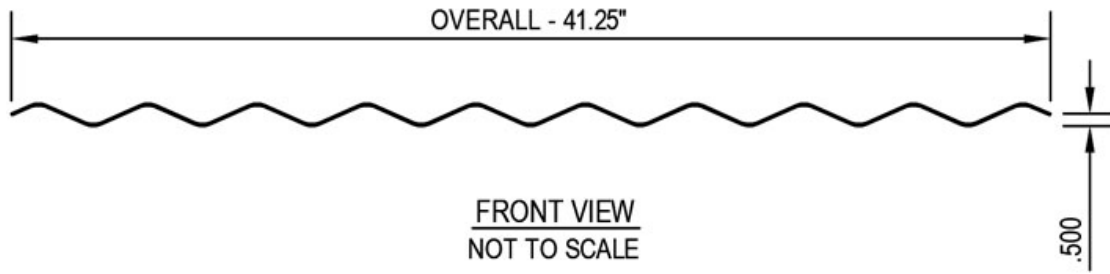
\*LOAD THAT PRODUCES L/240 OR L/180 DEFLECTION EXCEEDS TOTAL LOAD 24 GA and 22 GA also available.



# 1/2" x 2-1/2" (2.67) Corrugated

18, 20, 22, 24 Gauge

The "old standby" 2-1/2" x 1/2" corrugated meets the necessary requirements of durability, economy, and appearance. This corrugation is available in bare aluminum, painted aluminum, galvalume, galvanized, and stainless steel.



2.67" x 1/2" CORRUGATED  
SUGGESTED UNIFORM ROOF LOADS IN POUNDS PER SQ. FOOT

Gage	SPAN	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
18 stl.	1	157	109	80	62	49	39	33	27	23	20	17	15
	3	196	136	100	77	61	49	41	43	29	25	22	19
20 stl.	1	121	84	61	47	37	30	25	21	18	15	13	12
	3	151	105	77	59	47	38	31	26	22	19	17	15
22 stl.	1	137	95	70	53	42	34	28	24	20	17	15	13
	3	171	119	87	67	53	43	35	30	25	22	19	17
24 stl.	1	111	77	56	43	34	28	23	19	16	14	12	11
	3	138	96	71	54	43	35	29	24	20	18	15	14
26 stl.	1	84	58	43	34	27	22	18	15	12	11	9	8
	3	105	73	54	42	33	27	23	18	16	13	12	10

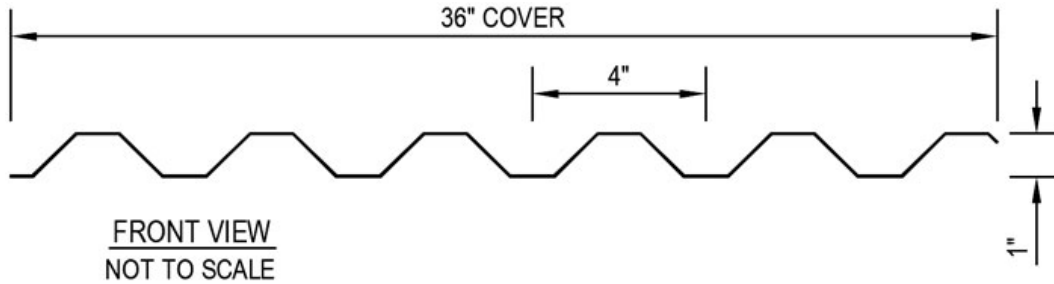
Notes:

1. Loads shown based on stress governing per AISC specs.
2. 26 GA and 22 GA material 50,000 PSI yield strength. (WC)
3. 20 GA and 18 GA material 37,000 PSI yield strength. (NC)
4. For (NC) 24 GA and 22 GA material at 37,000 PSI multiply loads shown by .74.
5. Loads shown may be increased by 1/3 for, wind loading.

# 4" Box Rib

Stainless, Painted Aluminum, Painted Steel, Bare Aluminum

The 4" Rib is an industry standard siding product. The linear rib spacing is aesthetically pleasing. It can be produced in painted aluminum, painted steel, bare aluminum and stainless steel in 24 GA. and heavier.



Gage	Weight #/SQR.	I (in4/ft)	Sp (in3/ft)	Sn (in3/ft)
24	140	0.0621	0.1039	0.1108
22	170	0.0822	0.1423	0.1496
20	200	0.1026	0.1832	0.1899
18	262	0.1367	0.2571	0.2571

Metal Specification: 35,000 PSI Minimum Yield Strength.

Allowable Loads																		
Total Uniform Load in PSF (Dead & Alive)																		
Gage	Span Condition	4'0	4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'5"	8'0"	8'5"	9'0"	9'5"	10'0"	10'6"	11'0"	11'6"	12'0
24	Single	85	60	43	33	25	20	18	13	11	9	7	5	5	5	4	4	3
22		112	79	58	43	33	26	21	17	14	12	10	8	7	6	5	5	4
20		140	99	72	54	42	33	26	21	18	15	12	10	9	8	7	6	5
18		187	131	96	72	55	44	35	28	23	19	16	14	12	10	9	8	7
24	Double	155	110	82	60	45	35	30	24	20	17	14	12	10	9	8	7	6
22		210	142	102	80	61	49	40	32	26	22	19	16	14	12	10	9	8
20		260	182	132	100	75	60	48	40	33	28	23	20	17	15	13	11	10
18		345	240	180	136	104	82	55	53	44	37	31	26	23	18	17	15	13
24	3 or More	185	144	105	79	60	47	36	30	25	20	18	15	13	11	10	9	8
22		238	185	135	102	79	62	50	40	32	26	23	20	17	15	13	11	10
20		315	235	170	128	100	78	63	51	42	35	30	25	21	19	18	14	13
18		418	310	225	170	130	102	81	65	55	45	40	34	29	25	22	14	14

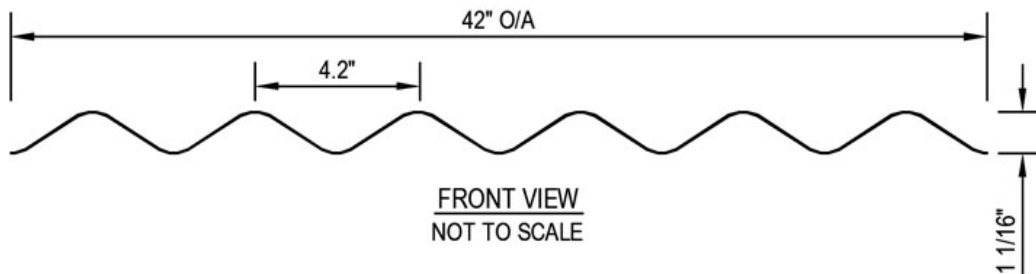
## 4.2" Corrugated Panels

### Excellent for Paper & Pulp Industry

In our increasing efforts to supply compatible products in corrosion resistant materials to the pulp and paper industry, James River Steel can supply 4.2" corrugated panels in stainless steel. Panels can be supplied in both T304 and T316 stainless. Panels can also be supplied in aluminum and in coated steels. Painted steel, galvanized steel and galvalume can be supplied in the 4.2" pitch.

Gauges in both stainless steel and galvanized run from 24 GA (.024) to 18 GA. (.048). Aluminum can be obtained in .050, .040, .and 032 thicknesses.

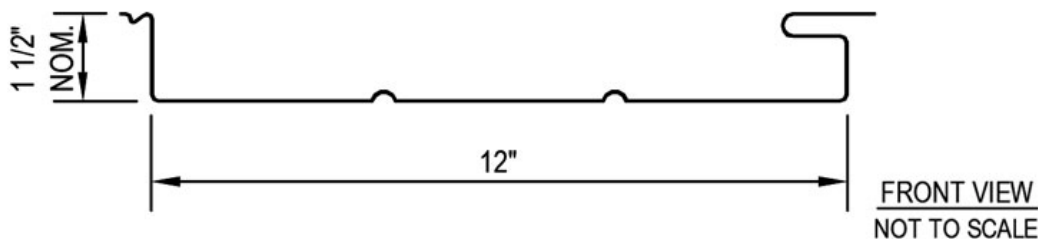
4.2" pitch panels used to be produced in an asbestos panel and today much of this panel still exists in the industry. We can supply like products in metal panels for those jobs where panels must match existing walls in appearance.



Metal GAGE	Available in Aluminum		Galvanized Stainless Painted Steel				8' - 10'
	24	23	22	21	20	19	18

## 12" Concealed Fastener Panel

The 12" concealed fastener panel gives a flat clean appearance to your building. These architectural siding panels are among our most versatile. It is a 12"-wide, flush panel, with stiffener ribs. It is also available without the stiffener ribs. This product is available in galvalume and stainless steel.

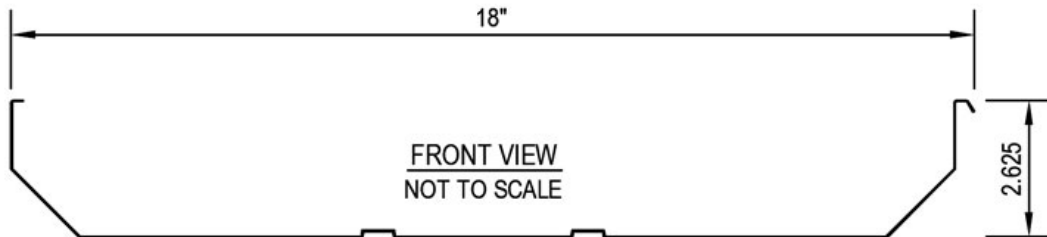




# Standing Seam

22, 24 Gauge

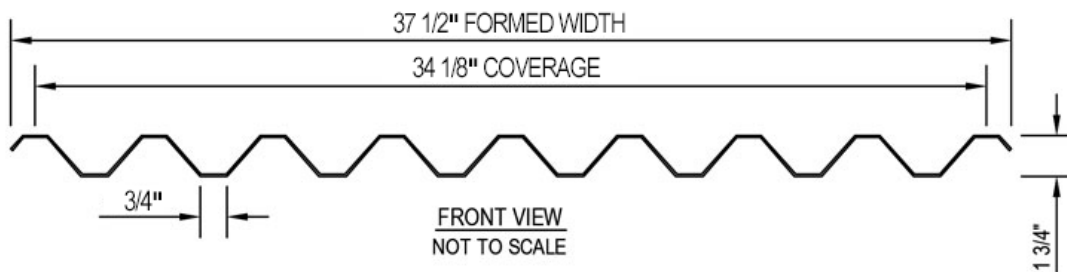
Standing Seam panels are popular economical choices due to their strength and ease of installation. This panel is available in galvalume and stainless steel.



Span	Minimum Thickness	Yield Stress KSI (MIN)	4	5	6	7	8
Simple Span	24 GA	50	130	82	51	31	20
	22 GA	50	174	110	69	42	28
Two Spans	24 GA	50	113	72	49	35	26
	22 GA	50	160	102	70	51	38
Three or More Spans	24 GA	50	142	90	62	45	34
	22 GA	50	201	128	88	64	48

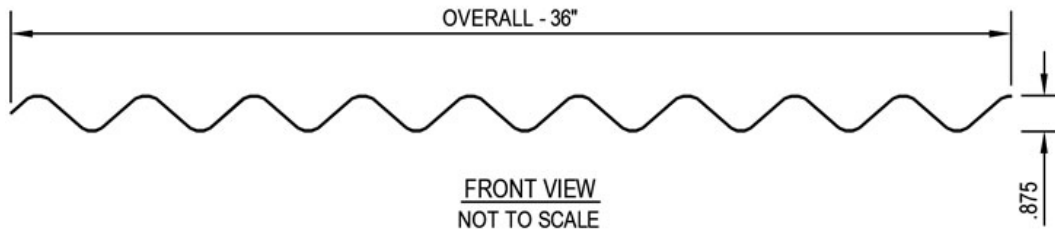
# V Beam

V-Beam offers superior strength and spanning capability and is used for both siding and roofing applications. This product is available in stainless steel, aluminum, and galvalume. V-beam is available in many color choices.



## 2.67" x 7/8" Corrugated Stainless & Aluminum

The 2.67" x 7/8" Corrugated Panel is a siding product that also has limited applications as a roofing product. This panel is an industry standard and is available in painted and bare aluminum and painted and coated steel. The 7/8" is also available in stainless steel.



Gage	Weight #/SQR.	I (in4/ft)	Sp (in3/ft)	Sn (in3/ft)
24	140	0.0621	0.1039	0.1108
22	170	0.0822	0.1423	0.1496
20	200	0.1026	0.1832	0.1899
18	262	0.1367	0.2571	0.2571

Metal Specification: 35,000 PSI Minimum Yield Strength.

2.67" x 7/8"														
CORRUGATED SUGGESTED UNIFORM ROOF LOADS IN POUNDS PER SQ. FOOT														
GA	SPAN	4'0"	4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	8'6"	9'0"	9'6"	10'0"
18 stl.	1	138	108	88	73	61	53	45	39	34	30	27	24	22
	3	171	135	110	91	76	65	56	49	43	38	34	30	27
20 stl.	1	109	86	69	58	48	41	35	32	27	24	21	19	17
	3	136	107	88	72	60	50	44	38	34	30	27	24	21
22 stl.	1	72	58	48	40	33	29	26	22	20	18	16	18	
	3	89	73	60	50	43	37	32	28	25	22	20		
24 stl.	1	73	58	47	39	33	27	24	21	18	16	18	16	
	3	91	72	59	49	41	35	30	27	23	20			
26 stl.	1	72	57	46	38	32	27	23	20	18	16	17	16	
	3	90	70	58	48	40	34	29	25	22	20			
.032 alum.	1	72	57	46	38	31	27	23	20	18	16	18		
	3	91	72	58	48	39	34	29	26	23	21			

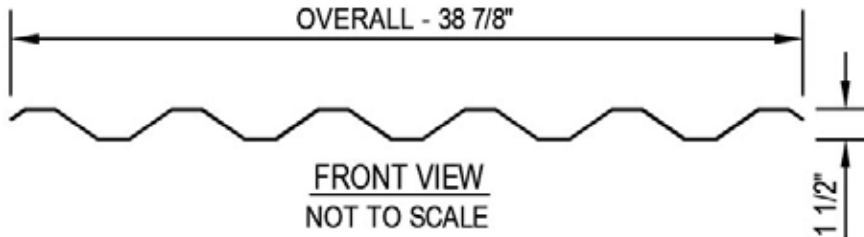
Notes:

1. Loads shown based on stress governed per AISC specs.
2. 26 GA., 24 GA. material 50,000 PSI yield strength. (WC)
3. 20 GA. And 18 GA. material 37,000 PSI yield strength. (NC)
4. For (NC) 24 GA. and 22 GA. material at 37,000 PSI multiply loads shown by .74.
5. Loads shown may be increased by 1/3 for wind loading.

## 7.2 Panel

### Stainless, Galvalume & Aluminum

The 7.2 metal wall panels have a traditional 7.2 rib panel design. 7.2 Panel is available in various thicknesses and may be used for both interior and exterior applications.

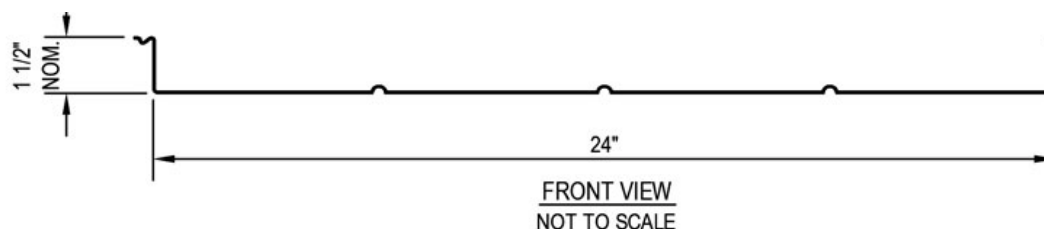


LOAD CHART															
SUGGESTED UNIFORM ROOF LOAD IN POUNDS PER SQUARE FOOT															
GAGE	SPAN	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"
18 stl.	1	122	109	94	82	72	64	57	51	46	42	39	35	32	30
	3	156	139	120	104	92	81	72	65	59	53	49	44	41	38
20 stl.	1	84	75	64	56	49	44	39	35	32	29	26	24	22	20
	3	105	97	83	73	64	57	50	45	41	37	34	31	28	26
22 stl.	1	67	58	50	44	39	34	30	27	25	22	21	19	17	16
	3	82	75	65	56	49	44	39	35	32	29	27	24	22	20
24 stl.	1	49	43	37	32	29	25	23	20	18	17	14	13	13	12
	3	63	55	47	41	36	32	29	26	23	21	18	17	16	15
0.032 alum.	1	Available on Inquiry													
	3														
0.040 alum.	1	Available on Inquiry													
	3														

Notes:  
1. Loads shown based on stress governing per AISC specs.

## 24" Liner Corrugated Panel

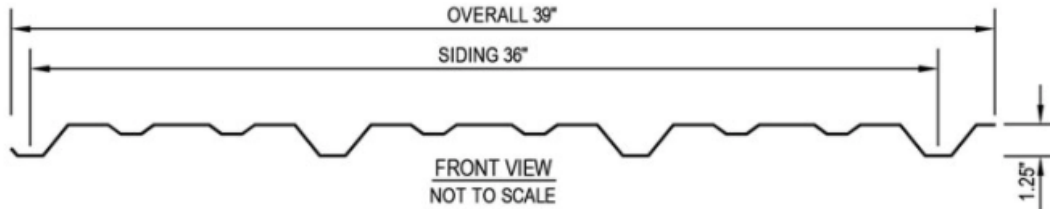
24" Liner Panel yields 24" of coverage and erects quickly. It is available 24 through 18 ga. and is available in G90 galvanized, galvalume and painted G90 galvanized.



# Vertarib



Vertarib recessed channel siding panels are available in various stainless steel gauges. Using recessed fasteners, it is a good industrial siding choice for a smooth, flat wall. This profile is also available in galvalume, galvanized and aluminum.



VERTARIB														
SUGGESTED UNIFORM WIND LOADS IN POUNDS PER SQUARE FOOT														
GA.	SPAN	4.0'	4.6"	5.0"	5.6"	6.0"	6.6"	7'0"	7.6'	8.0"	8.6'	9.0"	9.6"	10.0'
18	1	176	140	111	92	78	66	54	46	41	37	32	30	23
stl	3	201	157	127	105	88	72	65	54	48	42	37	34	33
20	1	136	107	87	71	57	49	42	36	33	28	26 v	22	19
stl.	3	156	120	97	80	68	57	48	41	36	32	27	26	22
22	1	113	89	72	58	49	40	36	28	26	23	19	18	15
stl.		128	113	81	67	55	46	40	33	31	26	24	22	19
24	1	92	70	55	47	40	32	27	24	22	18			
stl.	3	102	80	65	53	45	37	30	27	24	22	18		
26	1	84	66	54	44	37	29	27	23	20	17			
sit.	3	95	75	59	49	40	35	30	26	22	19			

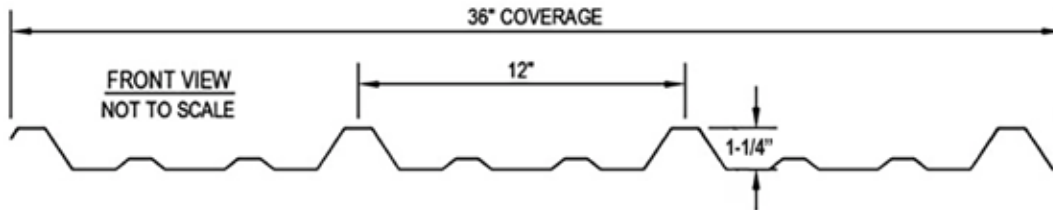
**NOTES:**

1. All material 50,000 P31 yield\_strenQth.
2. Loads shown based on stressgoverning per AISC specs.
3. For 18 Ga. and 20 Ga.. material at 37,000.PSI multiply loads shown by :74.



# 12" Rib Panel

The 12" Rib Panel is a high strength, deep, wide panel and is ideal for roofing and siding applications due to its extreme durability and aesthetically pleasing appearance. 12" Rib is available in stainless steel, galvalume, and aluminum.



SUGGESTED UNIFORM ROOF LOADS IN POUNDS PER SQUARE FOOT														
GA	Span	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	T-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"
18	1	136	108	86	71	60	51	42	36	32	29	25	23	18
stl.	3	155	121	98	81	68	56	50	42	37	33	29	26	24
20	1	105	83	67	55	44	38	33	28	26	22	20	17	15
stl.	3	120	93	75	62	53	44	37	32	28	25	21	20	17
22	1	87	69	56	45	38	31	28	22	20	18	15	14	12
stl.	3	99	87	63	52	43	36	31	26	24	20	19	17	15
24	1	71	54	43	36	31	25	21	19	17	14	12		
stl.	3	79	62	50	41	35	29	23	21	19	17	14		
26	1	65	51	42	34	29	23	21	18	16	13			
stl.	3	73	58	46	38	31	27	23	20	17	15	13		



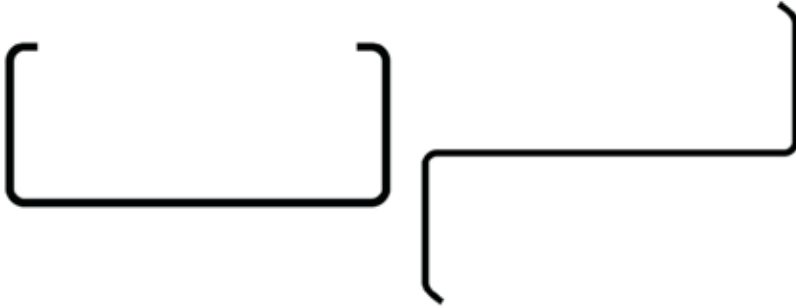
For the latest news and product information visit our website.

**[www.jamesriversteel.com](http://www.jamesriversteel.com)**

## Accessories

James River Steel also supplies the many accessories needed to complete your project.

### Structural Cee's and Zee's & Galvanized Cee's and Zee's



### Screws and Fasteners

Wood Screw Fasteners. Plain and Painted Special Cadmium Tin Plated, Bonded With EPDM Washer. Self Tapping Screws. And Self Drilling Screws.

### Flashings

James River Steel, Inc. prides itself in the variety of fabricated metal building components it produces and supplies to the construction industry. Besides the roll formed panels we supply for siding, roof decks and floor decks, we supply a wide assortment of miscellaneous products.

## Corrosion Resistant Finishes

### Stainless Steel

Stainless Steel is a strong, low maintenance material that is comparatively less expensive in the long run.

- 1. Martensitic** - Straight Chromium, hardenable by heat treatment. Representative types are 410, 420, 431 and 440C.
- 2. Ferritic** - Straight Chromium, non-hardenable by heat treatment. Representative types are 405 and 430.
- 3. Austenitic** - Chromium-Nickel, non-hardenable by heat treatment. Representative types are 303, 304 and 316.



### Aluminum

In high purity form, aluminum is soft and ductile. Most commercial uses, however, require greater strength than pure aluminum affords. This is achieved in aluminum first by the addition of other elements to produce various alloys which singly or in combination impart strength to the metal. Further strengthening is possible by means which classify alloys roughly into two categories, non-heat treatable and heat treatable.

### Coated/Painted Steel

Typically, James River Steel produces our decking in G-60 & G-90 galvanized steel and our siding products in galvalume steel. Call us with your engineering needs and we'll be happy to supply you with the materials for your next project.

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