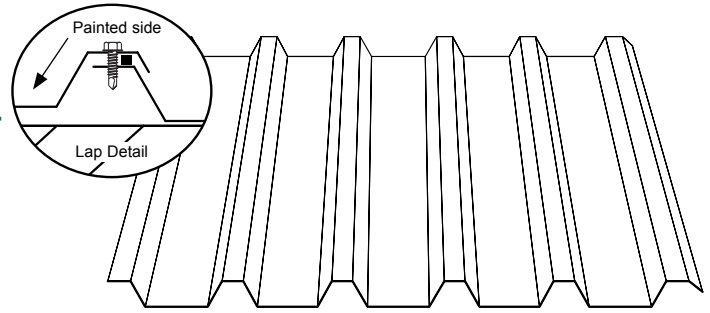
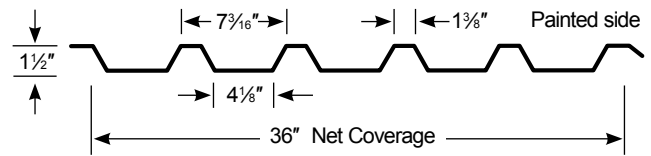




**Reversed Box Rib** is an economical, structural, exposed-fastener roof and wall panel suitable for general usage.



Reversed Box Rib (Typical Roof and Wall Panel)



Reversed Box Rib is ideal for roof, vertical and horizontal wall applications, ceilings or soffits.

Properties									Standard Finishes	
Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft <sup>2</sup> )	I+ (in <sup>4</sup> /ft)	S+ (in <sup>3</sup> /ft)	I- (in <sup>4</sup> /ft)	S- (in <sup>3</sup> /ft)	Metallic Coating	Paint System
29	0.0139	80	82	0.75	0.0606	0.0449	0.0537	0.0447	AZ50	ColorGuard™xt
26	0.0173	80	82	0.95	0.0803	0.0653	0.0701	0.0651	AZ50	Cool DuraTech® nt
24	0.0232	50	65	1.25	0.1200	0.1122	0.0993	0.1013	AZ50	Cool DuraTech® 5000 (polyvinylidene fluoride) or DuraTech mx (metallic polyvinylidene)
22	0.0294	50	65	1.57	0.1600	0.1557	0.1333	0.1503	AZ50	
20	0.0354	40	55	1.92	0.1956	0.1987	0.1644	0.1892	G90*	
18	0.0459	40	55	2.46	0.2522	0.2590	0.2256	0.2507	G90	

**NOTES:** The moments of inertia, I<sup>+</sup> and I<sup>-</sup>, presented for determining deflection are:  $(2I_{\text{Effective}} + I_{\text{Gross}})/3$

## standard features

- Custom manufactured sheet lengths from 5'-0" to 45'-0."
- Available in 29ga, 26ga, 24ga and 22ga in standard finishes – refer to AEP Span Color Charts for full range of color options and paint systems.
- 20ga available in Bare Zincolume<sup>®</sup> plus.
- Zincolume<sup>®</sup> coated substrate, per ASTM A-792, is standard and backed by a corrosion warranty on painted or unpainted panels.
- Meets IBC requirements for wall and roof panels in accordance to Chapters 14 & 15.
- Performance testing:
  - Air – ASTM E283
  - Water -ASTM E331
- All colors meet a minimum SRI of 29 and one color, Regal White has a SRI of 85.

## optional features

- Short cut sheets from 5'-0" to 1'-0". Additional fees and lead times may apply.
- 20ga available in standard colors subject to a minimum order size of 4,500 square feet and longer lead times.
- 18ga available in bare G-90 galvanized and standard colors subject to a minimum order size of 4,500 square feet and longer lead times.
- Custom colors, thick film primer and/or clear coat paint finishes available. Subject to 4,500 square feet minimum order.
- Perforation options available for an additional charge. Minimum order size 1,500 sq feet. Select from standard perforation patterns with open areas of 7.8%, 13.8%, 23.4%, 30.6% or 41.4%.
- Crimp curving:
  - 24 gage – max length 30'-0", Min outside radius 24"
  - 22 gage - max length 30'-0", Min outside radius 24"
  - 20 gage - max length 30'-0", Min outside radius 48"
  - 18 gage - max length 20'-0", Min outside radius 48"
- Stucco embossed available on 29ga, 26ga, 24ga and 22ga. Subject to min. order size of 1,500 square feet.



Gauge	Span	Cond.	Allowable Inward Loads (lbs/ft <sup>2</sup> ) per Span (ft.-in.)								
			16"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	5'-0"	8'-0"	10'-0"
29	SS	f	605	269	172	119	67	43	30	17	11
		L/180	-	-	-	-	-	42	25	10	5
	DS	f	603	268	171	119	67	43	30	17	11
		L/180	-	-	-	-	-	-	-	-	-
TS	f	753	335	214	149	84	54	37	21	13	
	L/180	-	-	-	-	-	-	-	-	12	
26	SS	f	879	391	250	174	98	63	43	24	16
		L/180	-	-	-	-	-	56	33	14	7
	DS	f	877	390	249	173	97	62	43	24	16
		L/180	-	-	-	-	-	-	-	-	-
TS	f	1096	487	312	217	122	78	54	30	19	
	L/180	-	-	-	-	-	-	-	30	15	
24	SS	f	1259	560	358	249	140	90	62	35	22
		L/180	-	-	-	-	-	84	49	20	10
	DS	f	1138	506	324	225	126	81	56	32	20
		L/180	-	-	-	-	-	-	-	-	-
TS	f	1422	632	405	281	158	101	70	40	25	
	L/180	-	-	-	-	-	-	-	-	23	
22	SS	f	1748	777	497	345	194	124	86	49	31
		L/180	-	-	-	-	-	112	65	27	14
	DS	f	1688	750	480	333	188	120	83	47	30
		L/180	-	-	-	-	-	-	-	-	-
TS	f	2109	938	600	417	234	150	104	59	38	
	L/180	-	-	-	-	-	-	-	-	-	
20	SS	f	1785	793	508	353	198	127	88	50	32
		L/180	-	-	-	-	-	-	79	33	17
	DS	f	1700	755	483	336	189	121	84	47	30
		L/180	-	-	-	-	-	-	-	-	-
TS	f	2125	944	604	420	236	151	105	59	38	
	L/180	-	-	-	-	-	-	-	-	31	
18	SS	f	2326	1034	662	460	258	165	115	65	41
		L/180	-	-	-	-	-	-	102	43	22
	DS	f	2251	1001	640	445	250	160	111	63	40
		L/180	-	-	-	-	-	-	-	-	-
TS	f	2814	1251	801	556	313	200	139	78	50	
	L/180	-	-	-	-	-	-	-	-	49	

LOADING TABLE LEGEND		
f - Load limited by flexural bending stress		
L - Span (Inches)		
L/180 - Load limited by a deflection of 1/180 of the span		
w - Distributed load		
Inward Loads	SS-Single span	
	DS-Double span	
	TS-Triple span	

#### NOTES:

- Top values based on allowable stress.  
Bottom values based on allowable deflection of L/180.
- "-" denotes that the allowable load is limited by the allowable flexural bending stress.
- Steel conforms to ASTM A653 (Galvanized) or ASTM A792 (Zincalume) structural steel.
- Tabulated values are for positive (Inward) loading only.
- Values are based on the American Iron and Steel Institute (AISI) "Cold Formed Steel Design Manual" (2007 Edition).

Specifications subject to change without notice.

**Oil Canning** : All flat metal surfaces can display waviness commonly referred to as "oil canning". "Oil canning" is an inherent characteristic of steel products, not a defect, and therefore is not a cause for panel rejection.