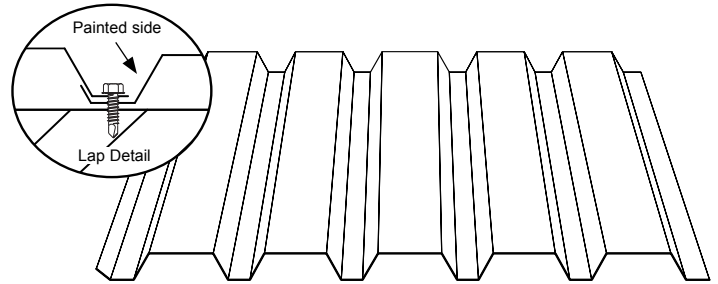
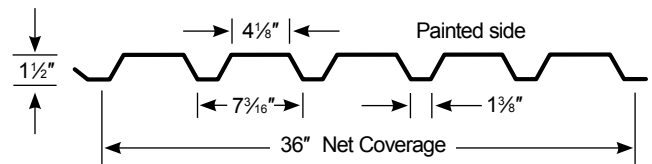


**Box Rib** is an economical, structural, exposed-fastener wall panel suitable for general usage.



Box Rib (Wall Applications only)



**Box Rib** is ideal for 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	0.0140	80	82	0.75	0.0517	0.0453	0.0581	0.0455	AZ50	ColorGuard™xt
26	0.0170	80	82	0.95	0.0731	0.0636	0.0827	0.0633	AZ50	Cool DuraTech® nt
24	0.0230	50	65	1.25	0.0993	0.1001	0.1200	0.1109	AZ50	Cool DuraTech® 5000 (polyvinylidene fluoride) or DuraTech mx (metallic polyvinylidene)
22	0.0290	50	65	1.57	0.1289	0.1473	0.1556	0.1557	AZ50	
20	0.0350	40	55	1.92	0.1644	0.1869	0.1956	0.1964	G90*	
18	0.0460	40	55	2.46	0.2256	0.2513	0.2522	0.2597	G90	

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

\*Bare 20 gauge has a AZ50 metallic coating.

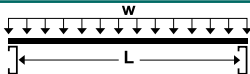
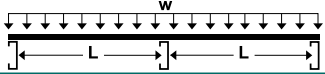
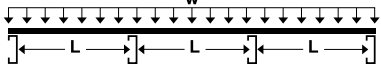
## standard features

- 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.
- Reverse rolled Box Rib available for roof applications. See Reverse Box Rib product information.

## 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. \* (See back)
- 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	611	271	174	121	68	43	30	17	11
		L/180	-	-	-	-	-	36	21	9	5
	DS	f	613	272	174	121	68	44	30	17	11
		L/180	-	-	-	-	-	-	-	-	11
	TS	f	766	340	218	151	85	54	38	21	14
		L/180	-	-	-	-	-	-	-	19	10
26	SS	f	856	381	244	169	95	61	42	24	15
		L/180	-	-	-	-	-	51	30	12	6
	DS	f	853	379	243	169	95	61	42	24	15
		L/180	-	-	-	-	-	-	-	-	-
	TS	f	1067	474	303	211	119	76	53	30	19
		L/180	-	-	-	-	-	-	-	28	14
24	SS	f	1124	499	320	222	125	80	55	31	20
		L/180	-	-	-	-	-	69	40	17	9
	DS	f	1245	553	354	246	138	89	61	35	22
		L/180	-	-	-	-	-	-	-	-	21
	TS	f	1556	692	443	307	173	111	77	43	28
		L/180	-	-	-	-	-	-	-	37	19
22	SS	f	1654	735	470	327	184	118	82	46	29
		L/180	-	-	-	-	176	90	52	22	11
	DS	f	1748	777	497	345	194	124	86	49	31
		L/180	-	-	-	-	-	-	-	-	27
	TS	f	2185	971	621	432	243	155	108	61	39
		L/180	-	-	-	-	-	-	-	-	27
20	SS	f	1679	746	478	332	187	119	83	47	30
		L/180	-	-	-	-	-	115	67	28	14
	DS	f	1764	784	502	348	196	125	87	49	31
		L/180	-	-	-	-	-	-	-	-	-
	TS	f	2205	980	627	436	245	157	109	61	39
		L/180	-	-	-	-	-	-	-	49	25
18	SS	f	2257	1003	642	446	251	161	111	63	40
		L/180	-	-	-	-	-	158	91	39	20
	DS	f	2332	1037	663	461	259	166	115	65	41
		L/180	-	-	-	-	-	-	-	-	-
	TS	f	2915	1296	829	576	324	207	144	81	52
		L/180	-	-	-	-	-	-	-	-	44

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.

\* Inquire with AEP Span representative regarding premium Vintage® and DuraTech® Dimensional Prints availability.