Reversed **Box Rib®** Roof and Wall

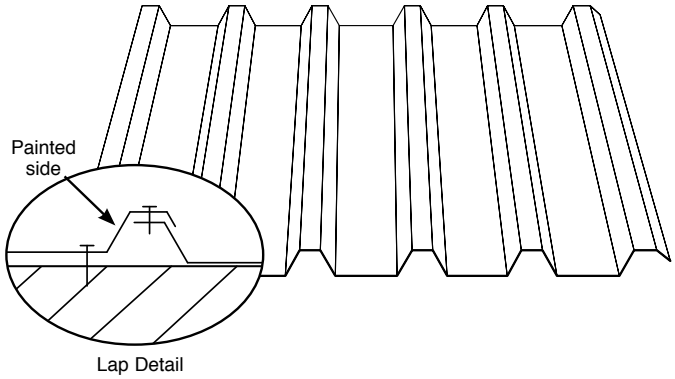
AEP SPAN
A BlueScope Steel Company

Featuring

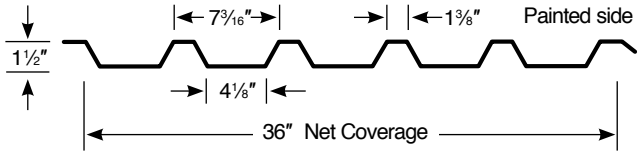
Zincalume® For Twice the Life!

Zincalume combines the strength of steel with the corrosion resistance of aluminum for twice the life of most zinc coatings.

Reversed Box Rib is a through-fastened metal panel with full 36" net coverage and is ideal for commercial, industrial, and architectural roof and wall applications.



Reversed Box Rib (Typical Roof and Wall Panel)



36" Reversed Box Rib Section Properties								
Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft^3)	S+ (in^3/ft)	I+ (in^4/ft)	S- (in^3/ft)	I- (in^4/ft)
24	0.0232	50	65	1.2	0.1122	0.1220	0.1013	0.0910
22	0.0294	50	65	1.5	0.1529	0.1600	0.1424	0.1233
20*	0.0354	40	55	1.8	0.1987	0.1933	0.1892	0.1633
18*	0.0459	40	55	2.4	0.2590	0.2533	0.2507	0.2333

* 18 and 20 gauge supplied as G-90 galvanized.

NOTE: The moments of inertia, I^+ and I^-, presented for determining deflection are: $(2I_{Effective} + I_{Gross})/3$

features | benefits

- Wider coverage means fewer panels to handle and install, saving time and money.
- Panel design provides superior load and span capacities which often allow savings in the structural support system.
- Quick, economical trim packages include standard trim pieces that can be ordered by number.
- panels can be crimp-curved for radiused applications.
- 24 gauge through 18 gauge panels available in the *cool* DuraTech®5000 (polyvinylidene fluoride) or DuraTech mx (metallic polyvinylidene) coatings or Zincalume Plus*. 18, 20 and 22 gauge panels require longer lead times.
- Fiberglass panels available in matching profile.

Tacoma, WA & Fontana, CA Phone: 800-733-4955 Fax: 253-272-0791 **www.aepspan.com**

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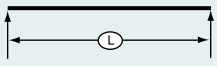
36″ Reversed Box Rib								
Gauge	Span	Cond.	Allowable Span (ft.-in.)					
			10	20	25	30	40	50
24	SS	f	14-11	10-7	9-5	8-7	7-5	6-8
		L/180	10-2	8-1	7-6	7-1	6-5	5-11
	DS	f	14-2	10-0	9-0	8-2	7-1	6-4
		L/180	13-0	10-0	9-0	9-2	7-1	6-4
	TS	f	15-4	11-11	10-10	9-9	7-8	7-7
		L/180	12-0	9-6	8-10	8-3	7-6	7-0
22	SS	f	17-5	12-4	11-0	10-1	8-8	7-9
		L/180	11-2	8-10	8-2	7-9	7-0	6-6
	DS	f	16-10	11-11	10-8	9-8	8-5	7-6
		L/180	14-3	11-3	7-6	6-8	8-5	7-6
	TS	f	18-7	13-1	11-12	10-11	9-9	8-8
		L/180	13-1	10-5	9-8	9-1	8-3	7-8
20	SS	f	17-9	12-7	11-3	10-3	8-10	7-11
		L/180	11-11	9-5	8-9	8-3	7-6	6-11
	DS	f	17-4	12-3	11-0	10-0	8-8	7-9
		L/180	15-5	12-3	11-0	10-0	8-8	7-9
	TS	f	19-7	13-2	12-0	11-11	9-10	8-9
		L/180	14-3	11-3	10-6	9-10	8-11	8-4
18	SS	f	20-4	14-4	12-10	11-9	10-2	9-1
		L/180	13-0	10-4	9-7	9-0	8-2	7-7
	DS	f	19-0	13-1	12-7	11-6	9-0	8-11
		L/180	17-2	13-7	12-7	11-6	9-0	8-11
	TS	f	22-10	15-4	14-2	12-1	11-11	10-10
		L/180	15-10	12-6	11-8	10-11	9-11	9-3

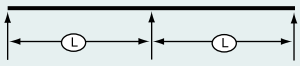
36″ Reversed Box Rib									
Gauge	Span	Cond.	Allowable Load (lbs/ft²) Span (ft.-in.)						
			5-0	6-0	7-0	8-0	9-0	10-0	11-0	12-0
24	SS	f	89	62	45	35	27	22	18	15
		L/180	85	49	31	20	14	10	8	6
	DS	f	81	56	41	31	25	20	16	14
		L/180	81	56	41	31	25	20	16	12
	TS	f	101	70	51	39	31	25	20	17
		L/180	101	70	50	33	23	17	13	10
22	SS	f	122	84	62	47	37	30	25	21
		L/180	112	64	40	27	19	14	10	8
	DS	f	113	79	58	44	35	28	23	19
		L/180	113	79	58	44	35	28	21	16
	TS	f	142	98	72	55	43	35	29	24
		L/180	142	98	66	44	31	22	17	13
20	SS	f	127	88	64	49	39	31	26	22
		L/180	127	78	49	33	23	16	12	9
	DS	f	121	84	61	47	37	30	25	21
		L/180	121	84	61	47	37	30	25	21
	TS	f	151	105	77	59	46	37	31	26
		L/180	151	105	77	56	39	29	21	16
18	SS	f	165	115	84	64	51	41	34	28
		L/180	165	102	64	43	30	22	16	12
	DS	f	160	111	81	62	49	40	33	27
		L/180	160	111	81	62	49	40	33	27
	TS	f	200	139	102	78	61	50	41	34
		L/180	200	139	102	77	54	39	29	23

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

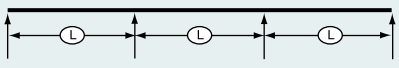
SS-Single span



DS-Double span



TS-Triple span



NOTES:

- Top values based on allowable stress. Bottom values based on allowable deflection of L/180.
- Steel conforms to ASTM A653 (Galvanized) or ASTM A792 (Zincalume) with 40,000 psi minimum yield for 20 gauge and 18 gauge, and 50,000 psi minimum yield for 24 gauge and 22 gauge.
- Tabulated values are for positive 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.

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