

Span-Lok™ hp, Curved Span-Lok™, & SpanSeam



Featuring

Zincalume® For Twice the Life!

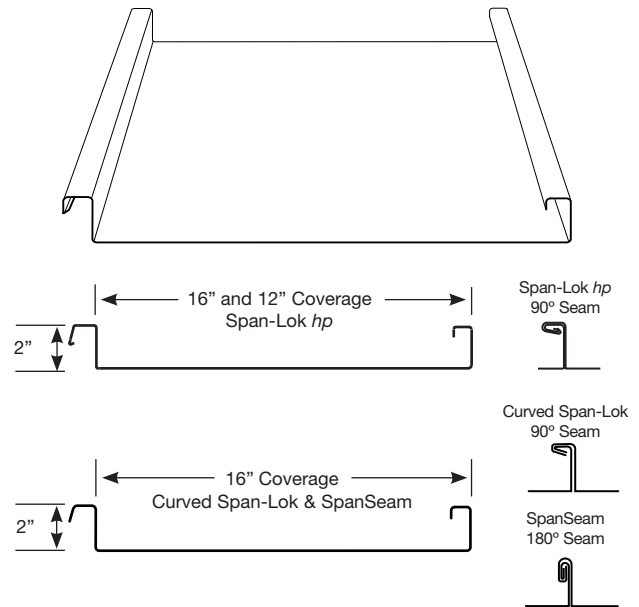
Zincalume combines the strength of steel with the corrosion resistance of aluminum for twice the life of most zinc coatings.

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are performance-rated architectural standing seam metal roof systems. The mechanically seamed 2" high rib, provides aesthetic appeal and weather tightness that can be used in a wide variety of new construction or retrofit applications.

features | benefits

- Tested in accordance with UL580 and ASTM E1592.
- Meets UL 90 wind uplift requirements (purlin not to exceed 5'-0" o.c.).*
- Span-Lok hp is Factory Mutual class 1-75 (5' span) and class 1-120 (2½' span) approved.*
- Span-Lok hp has an additional bend on female rib which increases uplift performance.
- Can be installed on pitches as low as ¼":12"
- Has been tested for air infiltration per ASTM E1680, and water infiltration per ASTM E1646 and ASTM E2140.
- Span-Lok available machine curved (factory or field) for radiused applications.*
- Can be installed over spaced supports or solid substrates.
- Factory applied sealant is standard (except curved panels).
- Factory swaged end laps available.*
- Available field formed by AEP Span in continuous long lengths.



Span-Lok hp, Curved Span-Lok, & SpanSeam Section Properties					
Width	Gauge	Wt. (lbs/ft²)	I (in⁴/ft)	S+ (in³/ft)	S- (in³/ft)
16"	24	1.35	0.1815	0.1132	0.0665
	22	1.62	0.2363	0.1485	0.0935
12"	24	1.49	0.2220	0.1449	0.0884
	22	1.88	0.2918	0.1937	0.1242

NOTE: The hybrid positive moment of inertia, I, presented for determining deflection is: $(2I_{\text{Effective}} + I_{\text{Gross}})/3$

- Factory notching available for turn under at the eave. Notch provides a clean detail and reduction in labor.
- Two piece, self centering clips, allow for expansion and contraction of panels.
- Choose from subtle striations, two pencil ribs or a clean flat-pan between ribs depending on aesthetic requirements.
- Available in the DuraTech®5000 or DuraTech mx coating systems. Also available as special order in aluminum.

NOTE: * Only applies to 16" panel. Please contact your AEP Span representative for more details.

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16" Width Span-Lok hp, Curved Span-Lok, & SpanSeam											
Gage	Span	Cond.	Allowable Inward Loads (lbs/ft ²) per Span (ft.-in.)								
			1-0	1-6	2-0	2-6	3-0	3-6	4-0	4-6	5-0
24	SS	f	2263	1006	565	362	251	184	141	111	90
		L/180	-	-	-	-	-	-	-	-	-
	DS	f	1329	590	332	212	147	108	83	65	53
		L/180	-	-	-	-	-	-	-	-	-
	TS	f	1661	738	415	265	184	135	103	82	66
		L/180	-	-	-	-	-	-	-	-	-
22	SS	f	2970	1320	742	475	330	242	185	146	118
		L/180	-	-	-	-	-	-	-	-	-
	DS	f	1869	830	467	299	207	152	116	92	74
		L/180	-	-	-	-	-	-	-	-	-
	TS	f	2336	1038	584	373	259	190	146	115	93
		L/180	-	-	-	-	-	-	-	-	-
			Allowable Outward Loads (lbs/ft ²) per Span (ft.-in.)								
Gage			1-0	1-6	2-0	2-6	3-0	3-6	4-0	4-6	5-0
24			189.9	177.0	163.2	148.5	132.8	116.2	98.7	80.3	61.0
22			249.1	219.2	191.7	166.7	144.1	124.1	106.6	91.5	78.9

12" Width Span-Lok hp											
Gage	Span	Cond.	Allowable Inward Loads (lbs/ft ²) per Span (ft.-in.)								
			1-0	1-6	2-0	2-6	3-0	3-6	4-0	4-6	5-0
24	SS	f	2898	1288	724	463	322	236	181	143	115
		L/180	-	-	-	-	-	-	-	-	-
	DS	f	1768	785	442	282	196	144	110	87	70
		L/180	-	-	-	-	-	-	-	-	-
	TS	f	2210	982	552	353	245	180	138	109	88
		L/180	-	-	-	-	-	-	-	-	-
22	SS	f	3874	1721	968	619	430	316	242	191	154
		L/180	-	-	-	-	-	-	-	-	-
	DS	f	2484	1104	621	397	276	202	155	122	99
		L/180	-	-	-	-	-	-	-	-	-
	TS	f	3105	1380	776	496	345	253	194	153	124
		L/180	-	-	-	-	-	-	-	-	-
			Allowable Outward Loads (lbs/ft ²) per Span (ft.-in.)								
Gage			1-0	1-6	2-0	2-6	3-0	3-6	4-0	4-6	5-0
24			226.9	208.5	190.1	171.7	153.2	134.8	116.3	97.8	79.3
22			226.9	208.5	190.1	171.7	153.2	134.8	116.3	97.8	79.3

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	
Outward Loads		

NOTES:

- Top values based on allowable stress.
Bottom values based on allowable deflection of L/180.
 - "-" denotes that the allowable deflection is limited by the allowable flexural bending stress.
 - Steel conforms to ASTM A792 (Zincalume) with 50,000 psi minimum yield.
 - Values are based on the American Iron and Steel Institute (AISI) "Cold Formed Steel Design Manual" (2007 Edition).
- Specifications subject to change without notice.