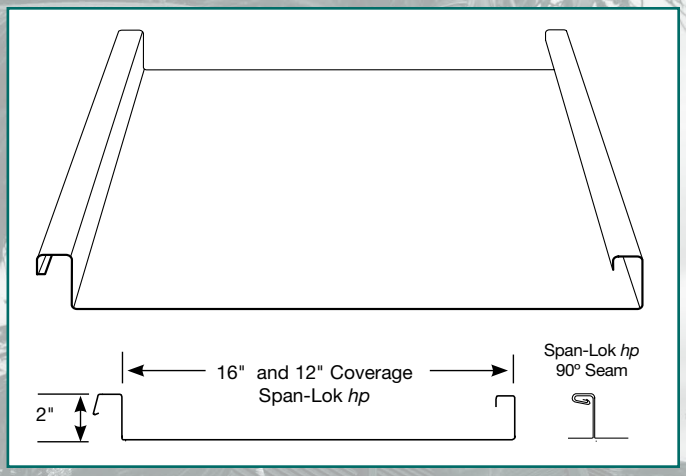
Span-Lok*hp*

PACIFIC ISLANDS HIGH WIND TESTED

AEP SPAN

Span-Lok™*hp* is a performance-rated architectural standing seam metal roof system. The mechanically seamed 2" high rib, provides aesthetic appeal, weather tightness and superior uplift performance. Span-lok *hp* can be used in a wide variety of new construction or retrofit applications.



Properties										Standard Finishes	
Width	Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft²)	I+ (in⁴/ft)	S+ (in³/ft)	I- (in⁴/ft)	S- (in³/ft)	Metallic Coating	Paint System
16”	24	0.0232	50	65	1.36	0.1865	0.1132	0.1165	0.0665	AZ50	Cool DuraTech® 5000 (polyvinylidene fluoride) or DuraTech *mx* (metallic polyvinylide
	22	0.0294	50	65	1.71	0.2395	0.1485	0.1515	0.0935	AZ50	
12”	24	0.0232	50	65	1.49	0.2290	0.1449	0.1491	0.0884	AZ50	
	22	0.0294	50	65	1.86	0.2959	0.1937	0.1937	0.1242	AZ50	

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

standard features

- Custom manufactured sheet lengths from 5'-0" to 45'-0"
- Can be installed on pitches as low as ¼":12"
- 16” Span-Lok *hp* is Factory Mutual class 1-75 (5’ span) and class 1-120 (2½' span) approved.
- Has been tested for air infiltration per ASTM E1680, and water infiltration per ASTM E1646 and ASTM E2140.
- Tested in accordance with UL580 and ASTM E1592, uplift values exceed 220 psf.
- Available in 24ga, and 22ga in standard finishes – refer to AEP Span Color Charts for full range of color options and paint systems.
- Code compliance evaluation report - IAPMO-UES #ER-0309

optional features

- 16" Span-Lok factory notching available for turn under at the eave. Notch provides a clean detail and reduction in labor.
- Choose from subtle striations, two pencil ribs or a clean flat-pan between ribs depending on aesthetic requirements.
- 16" Span-Lok available machine curved (factory or field) for radiused applications.
- Available field formed by AEP Span in continuous long lengths.
- Short cut sheets from 5'-0" to 1'-0". Additional fees and lead times may apply.
- Steel conforming to Buy America available. Inquire for more information.
- Available in .032 and .040 aluminum.

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

Span-Lok™ *hp*

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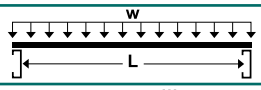
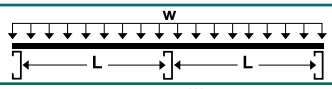
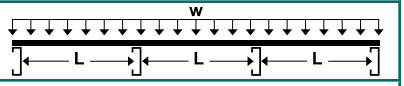
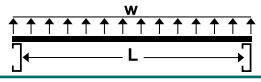
16" Width Span-Lok *hp* & SpanSeam									
			Allowable Inward Loads (lbs/ft²) per Span (ft.-in.)						
Gage	Span	Cond.	2-0	2-6	3-0	3-6	4-0	4-6	5-0
24	SINGLE SPAN	W/Ω	266	212	177	152	133	112	90
		L/180	-	-	-	-	-	-	-
	DOUBLE SPAN	W/Ω	159	127	106	91	79	63	52
		L/180	-	-	-	-	-	-	-
	TRIPLE SPAN	W/Ω	181	144	120	103	90	79	65
		L/180	-	-	-	-	-	-	-
22	SINGLE SPAN	W/Ω	401	321	267	229	185	146	119
		L/180	-	-	-	-	-	-	-
	DOUBLE SPAN	W/Ω	193	155	129	111	97	86	74
		L/180	-	-	-	-	-	-	-
	TRIPLE SPAN	W/Ω	220	176	147	126	110	98	88
		L/180	-	-	-	-	-	-	-

12" Width Span-Lok *hp*									
			Allowable Inward Loads (lbs/ft²) per Span (ft.-in.)						
Gage	Span	Cond.	2-0	2-6	3-0	3-6	4-0	4-6	5-0
24	SINGLE SPAN	W/Ω	354	283	236	202	177	143	116
		L/180	-	-	-	-	-	-	-
	DOUBLE SPAN	W/Ω	212	169	141	121	106	85	70
		L/180	-	-	-	-	-	-	-
	TRIPLE SPAN	W/Ω	241	193	160	138	120	106	86
		L/180	-	-	-	-	-	-	-
22	SINGLE SPAN	W/Ω	534	427	356	305	242	191	155
		L/180	-	-	-	-	-	-	-
	DOUBLE SPAN	W/Ω	258	206	172	147	129	115	97
		L/180	-	-	-	-	-	-	-
	TRIPLE SPAN	W/Ω	293	234	195	167	147	130	117
		L/180	-	-	-	-	-	-	-

	Allowable Outward Loads (lbs/ft²) per Span (ft.-in.)								
Gage	1-0	1-6	2-0	2-6	3-0	3-6	4-0	4-6	5-0
24	190	174	158	142	126	110	94	77	61
22	241	220	199	178	158	137	116	95	74

	Allowable Outward Loads (lbs/ft²) per Span (ft.-in.)								
Gage	1-0	1-6	2-0	2-6	3-0	3-6	4-0	4-6	5-0
24	217	200	183	166	149	132	115	98	81
22	217	200	183	166	149	132	115	98	81

LOADING TABLE LEGEND
W/Ω - Allowable panel strength
L - Span (Inches)
L/180 - Load limited by a deflection of 1/180 of the span
W - Distributed load

Inward Loads	Single span	
	Double span	
	Triple span	
Outward Loads		

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.

NOTES:

- The information in these tables applies to uniform loads only.
- Upper values based on allowable panel strength.
  Bottom values based on allowable service load deflection of L/180.
- "-" denotes that capacities are limited by panel strength vs. deflection.
- Steel conforms to ASTM A792 (ZINCALUME®) 50,000 psi minimum yield.
- Values are based on AISI S100-07/S2-10
- Maximum allowable outward load capacities are shown and dependent upon fastener-to-substrate capacities. Refer to IAPMO-UES report #ER-0309 for specific product capacities.

Specifications subject to change without notice.

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