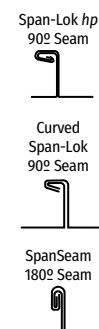
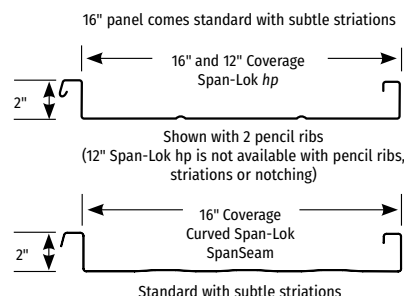


## Span-Lok hp, Curved Span-Lok, & SpanSeam Performance-rated architectural standing seam metal roof systems.

The mechanically seamed 2" high rib, provides aesthetic appeal and weathertightness that can be used in a wide variety of new construction or retrofit applications.



Panel connection shown here.



Properties										Standard Finishes	
Width	Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft²)	I+ (in⁴/ft)	S+ (in⁴/ft)	I- (in⁴/ft)	S- (in⁴/ft)	Metallic Coating	Paint System
16"	24	0.0232	50	65	1.36	0.1865	0.1132	0.1165	0.0665	AZ50	Cool Dura Tech™ 5000 (polyvinylidene fluoride) or Cool Dura Tech™ mx (metallic polyvinylidene)
	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	Cool Dura Tech™ mx (metallic polyvinylidene)
	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:  $(2I_{\text{Effective}} + I_{\text{Gross}})/3$

### standard features

- Custom manufactured sheet lengths from 6'-0" to 45'-0".
- Available in 24ga and 22ga in standard finishes - Refer to AEP Span Color Charts for full range of color options.
- Can be installed on pitches as low as ¼":12".
- 16" Span-Lok hp comes standard with subtle striations.
- Factory applied sealant is standard (Except for curved panels).
- 16" Span-Lok hp is Factory Mutual class 1-75 (5' span) and class 1-120 (2½' span) approved with 2.5" and 3" standard (purlin) clip.
- 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 capacities exceed 200 psf.
- Panel assemblies are Class A Fire Rated when installed on non-combustible deck or framing per IBC or IRC. Panel assemblies are also Class A Fire Rated per UL790 when installed in accordance to UL listings.
- Panel evaluated by accredited third party. All structural performance data is contained within an IBC/IRC 2018 code compliance report #ER-0309.



### optional features

- Factory notching available for turn under at the eave with 16" Span-Lok hp, 16" Curved Span-Lok, and 16" SpanSeam. Notch provides a clean detail and reduction in labor.
- 16" Span-Lok hp, 16" Curved Span-Lok, and 16" SpanSeam available with two pencil ribs.
- 12" Span-Lok hp is not available with pencil ribs, striations, or notching.
- Optional flat-pan available in 16" panel.
- 16" 22ga Span-Lok available machine curved (factory or field) for 35' radius applications.
- 16" Span-Lok™ hp panel available in aluminum.
- On-site roll former available for 16" Span-Lok™ hp with striated, flat or 2 pencil ribs.
- Short cut sheets from 6'-0" to 1'-0". Additional fees and lead times may apply.
- Steel conforming to Buy America available.

16" Width									
Gauge	Span	Cond.	Allowable Inward Loads (lbs/ft²) per Span (ft.-in.)						
			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	2038	1043	604	380	255	179	130
	Double Span	W/Ω	159	127	106	91	78	62	51
		L/180	4908	2513	1454	916	614	431	314
	Triple Span	W/Ω	181	144	120	103	90	76	63
		L/180	3845	1969	1139	717	481	338	246
22	Single Span	W/Ω	401	321	267	229	185	146	119
		L/180	2617	1340	775	488	327	230	167
	Double Span	W/Ω	193	155	129	111	97	86	72
		L/180	>5k	3227	1868	1176	788	553	403
	Triple Span	W/Ω	220	176	147	126	110	98	88
		L/180	4938	2528	1463	921	617	434	316

12" Width									
Gauge	Span	Cond.	Allowable Inward Loads (lbs/ft²) per Span (ft.-in.)						
			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	2502	1281	741	467	313	220	160
	Double Span	W/Ω	212	169	141	121	103	83	68
		L/180	>5k	3086	1786	1125	753	529	386
	Triple Span	W/Ω	241	193	160	138	120	102	83
		L/180	4722	2417	1399	881	590	415	302
22	Single Span	W/Ω	534	427	356	305	242	191	155
		L/180	3233	1655	958	603	404	284	207
	Double Span	W/Ω	258	206	172	147	129	115	95
		L/180	>5k	3987	2307	1453	973	684	498
	Triple Span	W/Ω	293	234	195	167	147	130	117
		L/180	>5k	3123	1807	1138	763	536	390

Gauge	Maximum Allowable Outward Loads (lbs/ft²) per Span (ft.-in.)*								
	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

Gauge	Maximum Allowable Outward Loads (lbs/ft²) per Span (ft.-in.)*								
	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

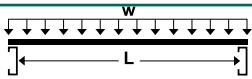
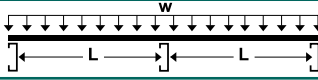
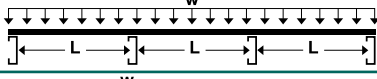

## LOADING TABLE LEGEND

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.
- Steel conforms to ASTM A792 (ZINCALUME®) 50,000 psi minimum yield.
- Values are based on AISI S100-16/S1-18.
- 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.

\* Maximum allowable outward loads apply to Span-Lok hp and SpanSeam only, using Purlin clip. Other configurations are located within #ER-0309 report.

Specifications subject to change without notice.



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