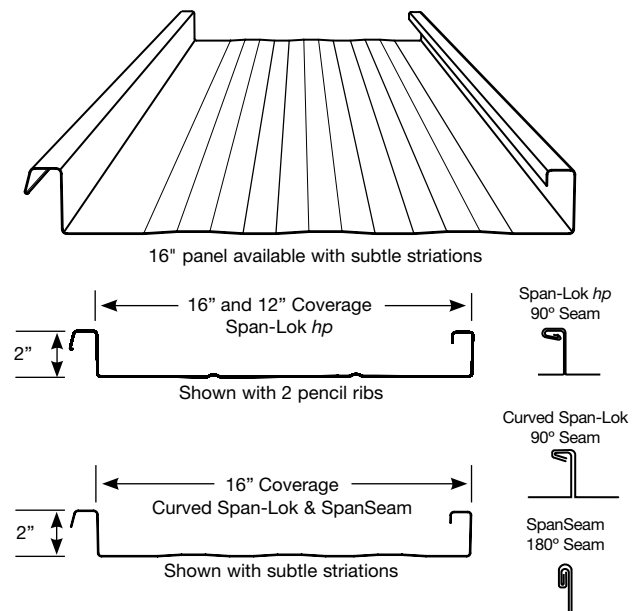


## Span-Lok™ hp, Curved Span-Lok™ & SpanSeam

Performance-rated architectural standing seam metal roof systems.

The mechanically seamed 2" high rib, provides aesthetic appeal and weather tightness that 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            | 1.35          | 0.1865      | 0.1132      | 0.1165      | 0.0665      | AZ50              | Cool DuraTech® 5000 (polyvinylidene fluoride) or DuraTech 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              |  |
|            | 22    | 0.0294                    | 50          | 65            | 1.86          | 0.2959      | 0.1937      | 0.1937      | 0.1242      | AZ50              |  |

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

### standard features

- Custom manufactured sheet lengths from 5'-0" to 45'-0"
- Can be installed on pitches as low as ¼":12"
- 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.
- Wind uplift tested in accordance with UL580 and ASTM E1592.
- Available in 24ga, and 22ga in standard finishes – refer to AEP Span Color Charts for full range of color options and paint systems.

### 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.

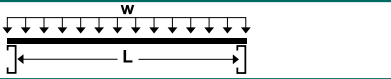
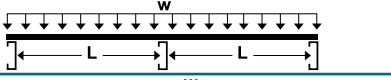
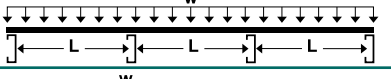

| 16" Width Span-Lok hp & SpanSeam |      |       |   |     |     |     |     |     |     |
|----------------------------------|------|-------|---|-----|-----|-----|-----|-----|-----|
| Gage                             | Span | Cond. | Allowable Inward Loads (lbs/ft²) per Span (ft.-in.) |     |     |     |     |     |     |
|                                  |      |       | 2-0   | 2-6 | 3-0 | 3-6 | 4-0 | 4-6 | 5-0 |
| 24                               | SS   | f     | 486   | 327 | 233 | 174 | 135 | 107 | 88  |
|                                  |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                                  |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
|                                  | DS   | f     | 303   | 200 | 142 | 104 | 80  | 63  | 52  |
|                                  |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                                  |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
|                                  | TS   | f     | 368   | 244 | 174 | 129 | 99  | 79  | 65  |
|                                  |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                                  |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
| 22                               | SS   | f     | 667   | 442 | 313 | 233 | 179 | 142 | 116 |
|                                  |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                                  |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
|                                  | DS   | f     | 435   | 285 | 200 | 148 | 114 | 90  | 74  |
|                                  |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                                  |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
|                                  | TS   | f     | 530   | 350 | 247 | 183 | 141 | 112 | 91  |
|                                  |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                                  |      | L/60  | -   | -   | -   | -   | -   | -   | -   |

| 12" Width Span-Lok hp |      |       |   |     |     |     |     |     |     |
|-----------------------|------|-------|---|-----|-----|-----|-----|-----|-----|
| Gage                  | 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                    | SS   | f     | 629   | 421 | 301 | 224 | 174 | 139 | 112 |
|                       |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                       |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
|                       | DS   | f     | 405   | 266 | 188 | 140 | 107 | 85  | 70  |
|                       |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                       |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
|                       | TS   | f     | 490   | 326 | 232 | 172 | 133 | 106 | 86  |
|                       |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                       |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
| 22                    | SS   | f     | 873   | 578 | 409 | 304 | 235 | 186 | 151 |
|                       |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                       |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
|                       | DS   | f     | 579   | 379 | 267 | 197 | 152 | 120 | 97  |
|                       |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                       |      | L/60  | -   | -   | -   | -   | -   | -   | -   |
|                       | TS   | f     | 705   | 465 | 329 | 245 | 189 | 149 | 122 |
|                       |      | L/180 | -   | -   | -   | -   | -   | -   | -   |
|                       |      | L/60  | -   | -   | -   | -   | -   | -   | -   |

| Gage | 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   | 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 |

| Gage | 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   | 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 allowable stress  
 L - Span (Inches)  
 L/180 and L/60 - Load limited by a deflection of 1/180 and L/60 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 bending and shear stress. Bottom values based on allowable deflection of L/180 and L/60.
  - "-" denotes that the allowable load is limited by the allowable stress.
  - Steel conforms to ASTM A792 (Zincalume) structural steel.
  - Values are based on the American Iron and Steel Institute (AISI) "Cold Formed Steel Design Manual" (2007 Edition).
  - Contact AEP Span Representative regarding allowable loads for Curved Span-Lok.
  - Allowable outward loads are dependent upon fastener-to-substrate capacities. Maximum allowable outward loads are shown.
- 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.