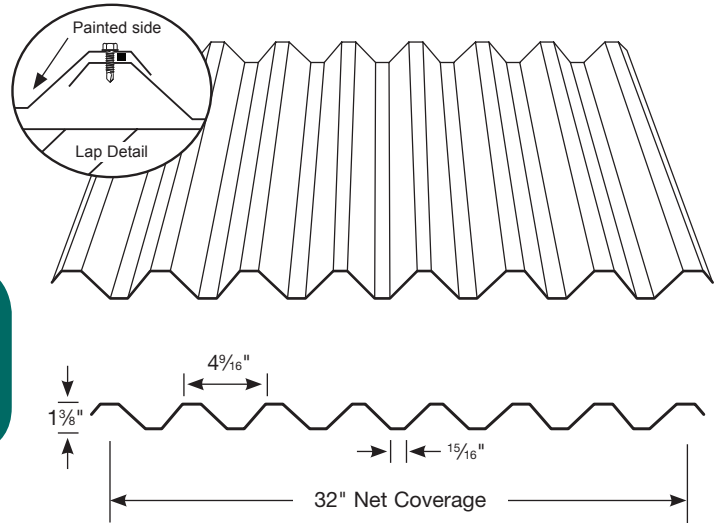


Mini-V-Beam is an exposed-fastened metal panel with 32" net coverage.

Mini-V-Beam is ideal for roof, vertical or horizontal wall applications, open framed canopy or carport designs.



| Properties | | | | | | | | | Standard Finishes | |
|------------|---------------------------|-------------|---------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------|---|
| Gauge | Base Steel Thickness (in) | Yield (ksi) | Tensile (ksi) | Wt. (lbs/ft ²) | I+ (in ⁴ /ft) | S+ (in ³ /ft) | I- (in ⁴ /ft) | S- (in ³ /ft) | Metallic Coating | Paint System |
| 26 | 0.0173 | 80 | 82 | 1.0 | 0.0665 | 0.0911 | 0.0667 | 0.0859 | AZ50 | Cool Dura Tech® <i>nt</i> |
| 24 | 0.0232 | 50 | 65 | 1.3 | 0.0887 | 0.1274 | 0.0890 | 0.1256 | AZ50 | Cool Dura Tech® 5000 (polyvinylidene fluoride) or Dura Tech <i>mx</i> (metallic polyvinylidene) |
| 22 | 0.0294 | 50 | 65 | 1.6 | 0.1187 | 0.1616 | 0.1187 | 0.1616 | AZ50 | |
| 20 | 0.0354 | 40 | 55 | 1.9 | 0.1425 | 0.1931 | 0.1425 | 0.1931 | G90 | |
| 18 | 0.0459 | 40 | 55 | 2.5 | 0.1837 | 0.2471 | 0.1837 | 0.2471 | G90 | |

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

standard features

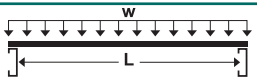
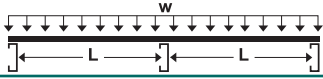
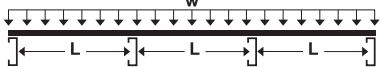
- Custom manufactured sheet lengths from 5'-0" to up to 45'-0".
- Available in 24ga, 24ga and 22ga in standard finishes - refer to AEP Span Color Charts for the full range of color options and paint systems.
- 20ga available in Bare Zinalume® plus.
- Zinalume® coated substrate, per ASTM A-792, is standard and backed by a corrosion warranty on painted or unpainted panels.
- Meets IBC requirements for wall and roof panels in accordance to Chapters 14 & 15.
- Performance testing:
 - Air – ASTM E283
 - Water -ASTM E331
- Low Slope Capacity - Can be installed on roofs slopes as low as 1:12.
- ICC Diaphragm Shear Values when used with TEK screws.
- All colors meet a minimum SRI of 29 and one color, Regal White has a SRI of 85.

optional features

- Short cut sheets from 5'-0" to 1'-0". Additional fees and lead times apply.
- 20ga available in standard colors subject to a minimum order size of 4,000 square feet and longer lead times.
- 18ga available in bare G-90 galvanized and standard colors subject to a minimum order size of 4,000 square feet and longer lead times.
- Custom colors, thick film primer and/or clear coat paint finishes available. Subject to 4,000 square feet minimum order.*
- Perforation options available for an additional charge. Minimum order size 1,335 sq feet. Select from standard perforation patterns with open areas of 7.8%, 13.8%, 23.4% or 30.6%.
- Stucco embossed available on 26ga, 24ga and 22ga. Subject to min. order size of 1335 square feet.

* Inquire with AEP Span representative regarding premium Vintage® and Dura Tech® Dimensional Prints availability.

| Gauge | Span | Cond. | Allowable Inward Loads (lbs/ft ²) per Span (ft.-in.) | | | | | | | | |
|-------|------|-------|--|-------|-------|-------|-------|-------|-------|-------|--------|
| | | | 16" | 2'-0" | 2'-6" | 3'-0" | 4'-0" | 5'-0" | 6'-0" | 8'-0" | 10'-0" |
| 26 | SS | f | 1227 | 545 | 349 | 242 | 136 | 87 | 61 | 34 | 22 |
| | | L/180 | - | - | - | 215 | 91 | 46 | 27 | 11 | 6 |
| | DS | f | 1157 | 514 | 329 | 229 | 129 | 82 | 57 | 32 | 21 |
| | | L/180 | - | - | - | - | - | - | - | 27 | 14 |
| | TS | f | 1446 | 643 | 411 | 286 | 161 | 103 | 71 | 40 | 26 |
| | | L/180 | - | - | - | - | - | 103 | 59 | 25 | 13 |
| 24 | SS | f | 1431 | 636 | 407 | 283 | 159 | 102 | 71 | 40 | 25 |
| | | L/180 | - | - | - | - | 121 | 62 | 36 | 15 | 8 |
| | DS | f | 1411 | 627 | 401 | 279 | 157 | 100 | 70 | 39 | 25 |
| | | L/180 | - | - | - | - | - | - | - | 36 | 19 |
| | TS | f | 1763 | 784 | 502 | 348 | 196 | 125 | 87 | 49 | 31 |
| | | L/180 | - | - | - | - | - | - | 79 | 33 | 17 |
| 22 | SS | f | 1814 | 806 | 516 | 358 | 202 | 129 | 90 | 50 | 32 |
| | | L/180 | - | - | - | - | 162 | 83 | 48 | 20 | 10 |
| | DS | f | 1814 | 806 | 516 | 358 | 202 | 129 | 90 | 50 | 32 |
| | | L/180 | - | - | - | - | - | - | - | 49 | 25 |
| | TS | f | 2268 | 1008 | 645 | 448 | 252 | 161 | 112 | 63 | 40 |
| | | L/180 | - | - | - | - | - | - | 106 | 45 | 23 |
| 20 | SS | f | 1734 | 771 | 493 | 343 | 193 | 123 | 86 | 48 | 31 |
| | | L/180 | - | - | - | - | - | 100 | 58 | 24 | 12 |
| | DS | f | 1734 | 771 | 493 | 343 | 193 | 123 | 86 | 48 | 31 |
| | | L/180 | - | - | - | - | - | - | - | - | 30 |
| | TS | f | 2168 | 963 | 617 | 428 | 241 | 154 | 107 | 60 | 39 |
| | | L/180 | - | - | - | - | - | - | - | - | 30 |
| 18 | SS | f | 2219 | 986 | 631 | 438 | 247 | 158 | 110 | 62 | 39 |
| | | L/180 | - | - | - | - | - | 128 | 74 | 31 | 16 |
| | DS | f | 2219 | 986 | 631 | 438 | 247 | 158 | 110 | 62 | 39 |
| | | L/180 | - | - | - | - | - | - | - | - | 39 |
| | TS | f | 2774 | 1233 | 789 | 548 | 308 | 197 | 137 | 77 | 49 |
| | | L/180 | - | - | - | - | - | - | - | 54 | 27 |

| 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 |  |

NOTES:

- Top values based on allowable stress.
Bottom values based on allowable deflection of L/180.
- "-" denotes that the allowable load is limited by the allowable flexural bending stress.
- Steel conforms to ASTM A653 (Galvanized) or ASTM A792 (Zincalume) structural steel.
- Tabulated values are for positive (Inward) 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.

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.