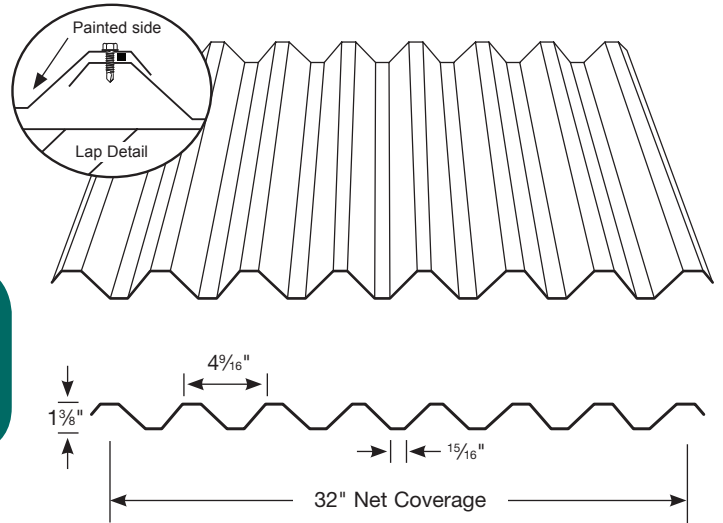


# Mini-V-Beam™ Roof and Wall

**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/ft²)	I+ (in⁴/ft)	S+ (in³/ft)	I- (in⁴/ft)	S- (in³/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 representative regarding premium Vintage® and Dura Tech® Dimensional Prints availability.

# Mini-V-Beam™ Roof and Wall

Gauge	Span	Cond.	Allowable Inward Loads (lbs/ft <sup>2</sup> ) 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.