1. **PRODUCT NAME**
   American Architectural “V” Rib Panels for wall applications.

2. **MANUFACTURER**
   AMERICAN BUILDINGS COMPANY

3. **PRODUCT DESCRIPTION**
   These wall panels provide 36” of coverage and reveal a sculptured appearance with semi-concealed fasteners. Rib depth is 1 1/4” on 12” centers.
   **Basic Use:** A wall panel system for new or retrofit construction.
   **Materials:** Architectural “V” Rib wall panels are available in 26 or 24 gage 80,000 psi, G90 zinc-coated (galvanized) steel or aluminum-zinc alloy-coated (AZ50 or AZ55) steel. Pre-painted panels have PVDF or SP (Silicone-Polyester) finish. Architectural “V” Rib panels are attached to the secondary framing members by self-drilling carbon steel screws, No. 12 x 1-1/4” hex washer head, cadmium or zinc plated. Architectural “V” Rib panel sidetaps are stitched with self-drilling carbon steel screws, No. 14 X 3/4” cadmium or zinc plated. Fasteners are normally color coordinated with a premium coating system that protects against corrosion and weathering. Maximum insulation thickness allowed with these panels is 6”.

4. **TECHNICAL DATA**
   The Architectural “V” Rib panel has been tested in accordance with Air Infiltration, ASTM E283 and Water Penetration, ASTM E331. This panel has received a Class A fire rating when tested in accordance with test procedure ASTM E108.

5. **INSTALLATION**
   Installation should be performed in accordance with American Buildings Company’s manuals and building erection drawings, and should be by a qualified installer using proper tools and equipment. Systems are installed by American Buildings Company Authorized Builders.

6. **AVAILABILITY**
   For availability, contact:
   AMERICAN BUILDINGS COMPANY

7. **WARRANTY**
   Thirty-five Year material warranties are available.

8. **MAINTENANCE**
   Only normal routine maintenance is required over the life of the panels.

9. **TECHNICAL SERVICES**
   For information, contact:
   AMERICAN BUILDINGS COMPANY

10. **PRODUCT NOTES**

…continued
The panels are either aluminum-zinc alloy or G-90 coated. The base metal thickness is used in determining section properties.

Positive load (POS) is applied inward toward the panel supports, and is applied to the outer surface of the full panel cross-section. Negative load (NEG) is in the opposite direction.

Engineering Properties of American Buildings Company Architectural "V" Rib AVN Panel (ASD)

<table>
<thead>
<tr>
<th>Designated Gage of Steel</th>
<th>Steel Yield KSI</th>
<th>Base Metal Thick. (in.)</th>
<th>Total Thick. (in.)</th>
<th>Panel Base Metal Weight (lbs. / ft²)</th>
<th>Top In Compression</th>
<th>Bottom In Compression</th>
<th>Fb KSI</th>
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<tbody>
<tr>
<td>26 Ga.</td>
<td>80</td>
<td>0.0177</td>
<td>0.0183</td>
<td>0.86</td>
<td>0.030</td>
<td>0.042</td>
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<td>36</td>
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<tr>
<td>24 Ga.</td>
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<td>0.0222</td>
<td>0.0238</td>
<td>1.09</td>
<td>0.040</td>
<td>0.054</td>
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<td>36</td>
</tr>
</tbody>
</table>

1. The panels are checked for bending (B), shear (S), combined bending and shear (B+S), deflection (D), web crippling (C), and panel pullover (P).
2. Section Properties are calculated in accordance with the 2012 North American Specification for the Design of Cold-Formed Steel Structural Members.
3. Minimum yield strength of 29, 26 and 24 gage steel is 80,000 psi. Minimum yield strength of 22 gage steel is 50,000 psi.
4. Steel panels are either aluminum-zinc alloy or G-90 coated. The base metal thickness is used in determining section properties.
5. Positive load (POS) is applied inward toward the panel supports, and is applied to the outer surface of the full panel cross-section. Negative load (NEG) is in the opposite direction.