

**SYSTEM OVERVIEW**

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Compatible Materials</b> | 4mm FR Core Metal Composite Material<br>≤3mm (1/8") Solid Aluminum Plate<br>>2mm (0.080") Aluminum Plate |
| <b>Aluminum Alloy</b>       | Extrusions & Clips: 6063-T6                                                                              |
| <b>Fabrication Method</b>   | Shop fabricated<br>CNC Router recommended                                                                |
| <b>Panel Assembly</b>       | Coped-and-Hemmed Edge<br>VHB™ Tape Attachment                                                            |
| <b>Installation Methods</b> | Clip Installation<br>Grid Installation                                                                   |

**ARROWHEAD® LEED DATA**
**½ Pre-Consumer + Post-Consumer Recycled Content**

|                             |             |
|-----------------------------|-------------|
| <b>Arrowhead Extrusions</b> | Up to 44.5% |
|-----------------------------|-------------|

**PANEL SIZES**

|                                    |                                                          |
|------------------------------------|----------------------------------------------------------|
| <b>Max. Recommended Panel Size</b> | 60" x 96" (Larger sizes may require additional handling) |
| <b>Typical Stiffener Spacing</b>   | 24" o.c. (Note: Engineered per project)                  |

**SYSTEM APPLICATIONS**

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| <b>Recommended Uses</b> | Interior Accent Walls<br>Entryways and Canopies<br>Low-rise construction |
|-------------------------|--------------------------------------------------------------------------|

**RECOMMENDED VHB™ TAPES**

|                             |                         |
|-----------------------------|-------------------------|
| <b>Recommended Products</b> | 3M™ VHB™ Tape GPH-160GF |
|-----------------------------|-------------------------|

*Data are typical, are provided for informational purposes, and should not be construed as maximum or minimum values for specification or for final design, or for a particular use or application. The data may be revised anytime without notice. We make no representation or warranty as to its accuracy and assume no duty to update. Actual data on any particular product or material may vary from those shown herein.*

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**THERMAL PERFORMANCE**

| Standard         | Descriptions                    | Test                                        |
|------------------|---------------------------------|---------------------------------------------|
| <b>ASTM D696</b> | Coefficient of Linear Expansion | 13.8 x 10 <sup>-6</sup> in/in/°F (Aluminum) |

**FIRE PERFORMANCE**

| Standard         | Descriptions                 | Test      | Result          |
|------------------|------------------------------|-----------|-----------------|
| <b>ASTM E136</b> | Fire Performance of Aluminum | ΔT < 86°F | Non-Combustible |

**MECHANICAL PROPERTIES**

| Standard         | Property                           | Data                      |
|------------------|------------------------------------|---------------------------|
| <b>ASTM B221</b> | Elastic (Young's, Tensile) Modulus | 9.9 x 10 <sup>6</sup> psi |
| <b>ASTM B221</b> | Elongation at Break                | 11%                       |
| <b>ASTM B221</b> | Fatigue Strength                   | 10 x 10 <sup>3</sup> psi  |
| <b>ASTM B221</b> | Poisson's Ratio                    | 0.33                      |
| <b>ASTM B221</b> | Shear Modulus                      | 3.7 x 10 <sup>6</sup> psi |
| <b>ASTM B221</b> | Shear Strength                     | 22 x 10 <sup>3</sup> psi  |
| <b>ASTM B221</b> | Tensile Strength: Ultimate (UTS)   | 35 x 10 <sup>3</sup> psi  |
| <b>ASTM B221</b> | Tensile Strength: Yield (Proof)    | 30 x 10 <sup>3</sup> psi  |

**CHEMICAL COMPOSITION**

| Standard         | Element        | Content       |
|------------------|----------------|---------------|
| <b>ASTM B221</b> | Aluminum (Al)  | 97.5% - 99.3% |
| <b>ASTM B221</b> | Magnesium (Mg) | 0.45% - 0.90% |
| <b>ASTM B221</b> | Silicon (Si)   | 0.20% - 0.60% |
| <b>ASTM B221</b> | Iron (Fe)      | 0.00% - 0.35% |
| <b>ASTM B221</b> | Copper (Cu)    | 0.00% - 0.10% |
| <b>ASTM B221</b> | Manganese (Mn) | 0.00% - 0.10% |
| <b>ASTM B221</b> | Chromium (Cr)  | 0.00% - 0.10% |
| <b>ASTM B221</b> | Zinc (Zn)      | 0.00% - 0.10% |
| <b>ASTM B221</b> | Titanium (Ti)  | 0.00% - 0.10% |
| <b>ASTM B221</b> | Other          | 0.05% - 0.15% |