



## R-500 EVO™ RIVETLESS™ PANEL SYSTEM

### Installation Notes and Recommendations

#### Product Description(s) / Applications:

ACM (Aluminum Composite Panel) or “back-cut” solid Aluminum plate products are designed and intended for external building cladding. Use of EVO™ aluminum extrusions and accessories are the responsibility of the fabricator / installer of said panels. Specific assemblies that deviate from the provided to-date testing must be designed and approved by the building designer or responsible cladding party(s). ACM and Plate cladding creates architectural appeal, not a waterproofing barrier. Specific systems and their components (waterproofing membrane, underlayment(s), insulation(s), waterproofing compounds, etc.) make a system an effective weather barrier.

#### Fire Resistance:

ACM systems fire resistance ratings vary depending on the type of composite material chosen for the specific project. The designed system should consider any combustible material in the system assembly. It is the responsibility of the project designer to determine the combustibility of materials behind the cladding system and add cavity and other barriers as required under relevant building codes and/or regulations.

#### Design:

EVO™ extrusions are designed and tested in a “progressive” (panel-to-panel) engagement style. System components (Perimeter, Mid-Clips, Half-Clips, and Starter extrusion pieces) and components are engineered for this style of installation. Deviation from this style of installation will and can affect the system performance.

#### Installing the Panels:

Run a plumb line using a laser or other device in all vertical and horizontal conditions and at all panel transitions. This process will determine where and if individual panel shims will be required as panels are installed. In some cases, hat or “z” channel can be used to shim for accurate panel installations. In addition, locate a starting elevation and angle benchmark to help keep the panel system square and level.

#### Beginning the Installation:

Install a panel in a critical transition or start area. Proper mounting of the first panel encourages proper alignment of adjacent panels. Install said panel in the lowest or highest point to meet your previously determined plumb line. This starting point is vital and essential to the entire installation process.

#### Alignment, Splines, Spacing:

Once the first panel is installed, continue with adjacent panels using the same described process. Confirm the panels' are spaced properly to receive splines (a shim or template guide can be used to assist). When installing splines, run longer splines vertically and shorter in the horizontal direction. Should a panel need to be replaced in the future, consistent spline placement/direction will make the replacement less tedious and costly. In many cases, certain panels will need to be installed prior to the above description. In those cases, develop a sketch to outline these details (windows, penetrations, corners, and doors). Referencing this sketch from time-to-time will reduce installation mistakes.

### **Panel Clips and Components:**

Verify that the panel clips are installed in line with the buildings frame, furring, or other connection point. The Mid-clips attached to perimeter frame of each individual panel, attached to the outlined connection point, then the adjacent panel is engaged to the male tab of the Mid-Clip. The Half-Clip is installed in the same manner as the Mid-Clip, however, no panel engaged occurs. The Half-Clip is to be used in detail areas (i.e.: window mullions, terminations, etc.) Creating a mock-up or template to confirm clips location is recommended. Leave the protective film in place on the panel face until all adjacent panels are installed. When fastening the clip to the connection point do not over tighten (1/2 a turn further than snug). Always confirm with the building designer and/or engineer the specific clip spacing and fastener to be used.

### **EVO™ RIVETLESS™ Components:**

- (EVO4MMPE10), "RIVETLESS"™ Perimeter Panel Extrusion
- (EVOMCE3P), Panel to Panel Connection Clip
- (EVOHCE3P), Detail Connection Clip
- (EVOSTRE10), Starter J Extrusion