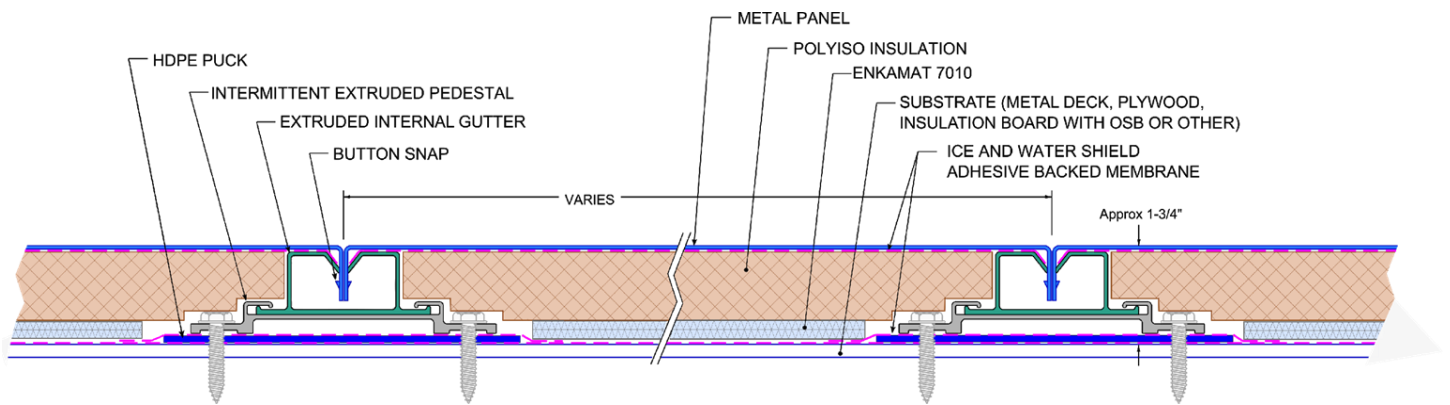




Inverted Seam™ cladding system uniquely provides three layers of water protection, with consideration of an elegant design aesthetic, regardless of slope. This system is offered with various finish cladding options, including most of Zahner's proprietary surfaces, without the unsightly appearance of raised ribs found in a traditional standing seam system.



## Inverted Seam Parameters

Metal panel width: 16" – 36"  
Metal panel length: 12' max.  
Panel metal thickness: .019"-.080"

Building geometry may be planar, curved and dual-curved. Rigid insulation can be installed in multiple thin layers to accommodate curvature. Curvature must not exceed bending capacity of internal gutter or metal cladding.<sup>1</sup>

Panels may be tapered to accommodate a non-parallel pattern. Tapering may require each metal panel to be designed for a specific location on the building, unless the tapered pattern is consistent at which point panels may be interchangeable within groups of identical shapes.

For larger surface areas (longer than 40' in the direction of internal gutter), internal gutter splices will be incorporated. Longer internal gutter lengths may require additional slope for proper drainage (see figure 2).

## General recommendations

System typically terminates at a gutter, edge of roof, or onto an adjacent waterproof level.

For best results, the pattern should be oriented such that the continuous major pattern lines run from higher elevation to lower elevation vs parallel to topology lines.

Adjacent transverse panel boundaries must be offset by minimum 6". Typical patterns incorporate 25%, 33%, or 50% staggers, but patterns are not limited to these options, and alternate offsets may be specified (see figures 1 & 3).

<sup>1</sup> Contact Zahner for details and design considerations tailored to your specific application.

Figure 1: Typical Patterns

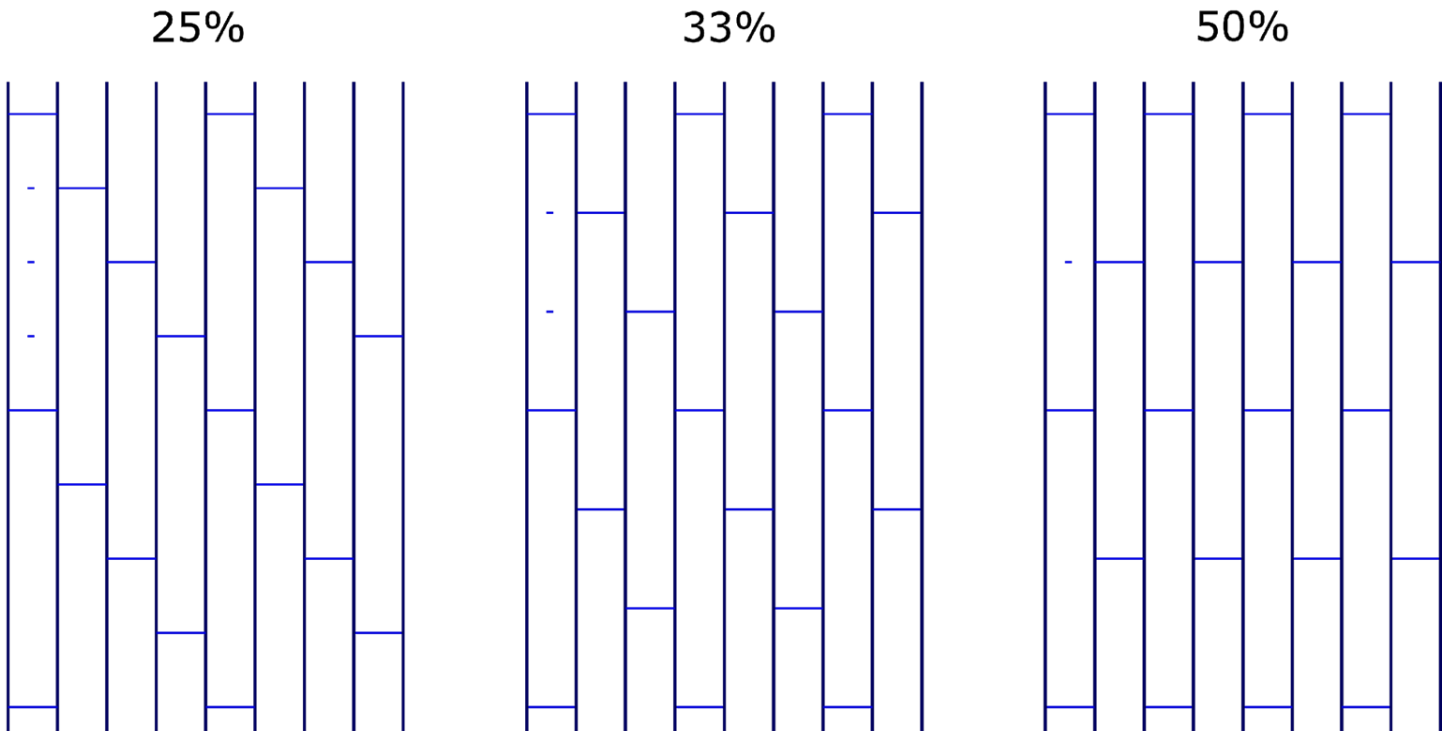


Figure 2: Internal Gutter Splice and Thermal Expansion

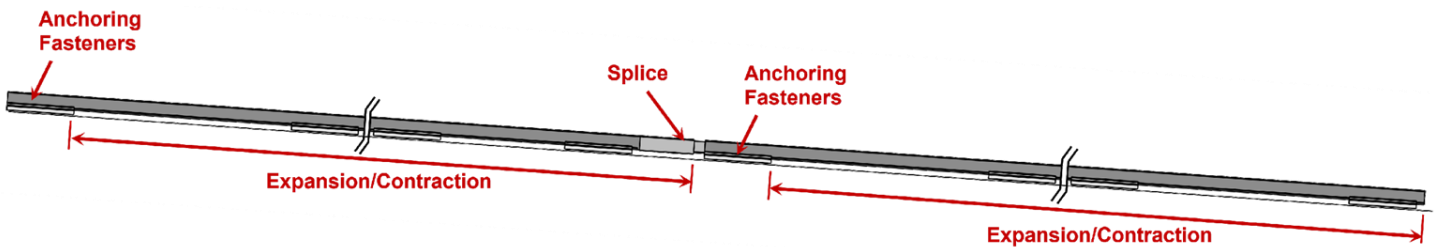
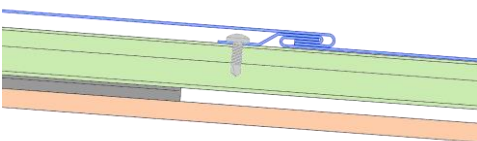
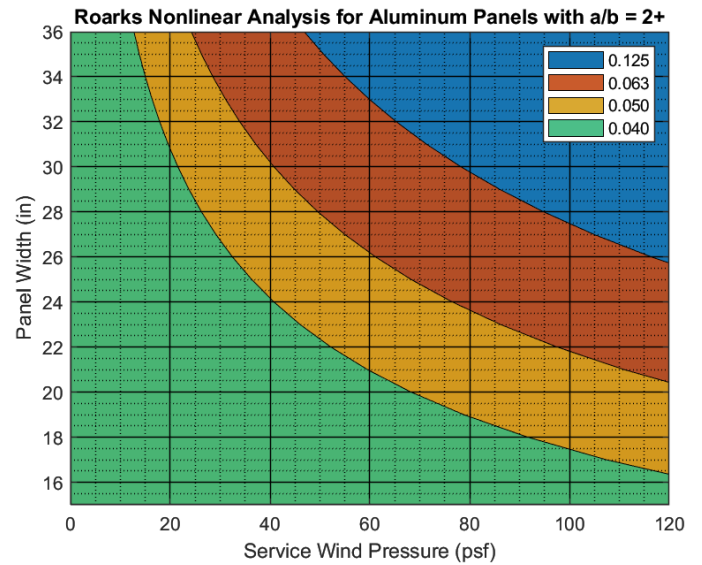
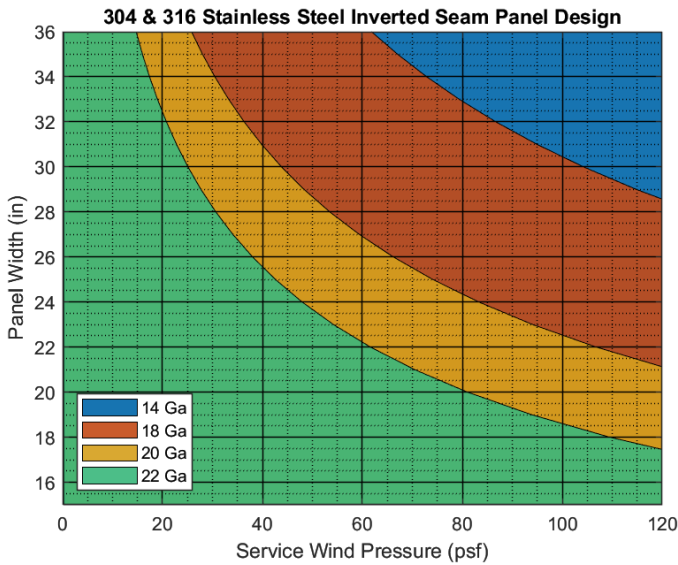


Figure 3: Section Through Metal Panel Transverse Joint



The following charts are provided for preliminary design only. Please consult with Zahner's licensed engineers to verify your project's specific requirements.

Required material thickness relative to desired pattern width and project design pressures



Maximum pedestal spacing relative to desired pattern width and project design pressures

