



## TECHNICAL BULLETIN INSULATED CONCRETE FORMS (ICF)

### Overview

Nichiha products may not be installed directly over Insulated Concrete Forms (ICFs). Our product building code evaluations, testing, and certifications do not include ICFs within their scope. Similar to CMU or tilt-up walls, a furring system providing minimum 18 gauge metal or 2x lumber is required. Refer to the *Framing and Sheathing Requirements* in the applicable installation guide(s).

### FERO CLADDING SUPPORT

FERO ICF-Masonry Veneer Ties are an excellent option. The ties must be embedded into the ICF prior to the concrete being poured. Therefore, this limits AWP applications to new construction in progress as the approach cannot apply to already-completed ICFs.

The FERO ICF-Masonry Veneer Ties must be arranged to support the vertical 16 gauge metal angles offered by FERO. The vertical spacing of the ties is determined by FERO in consideration of engineering requirements (cladding dead loads and project/site specific wind loads). The horizontal spacing of the ties and vertically-aligned 16 ga. angles must be at 16" o.c. to support horizontal installation of Nichiha AWP. For AWP-3030 in a vertical orientation, please contact the Nichiha Technical Department. Please review the following document and contact FERO for questions about their product(s): [https://ferocorp.com/wp-content/uploads/2021/08/Cladding\\_Support.pdf](https://ferocorp.com/wp-content/uploads/2021/08/Cladding_Support.pdf)

### GENERIC FURRING (ASSUMES HORIZONTAL AWP INSTALLATION)

Wood Furring: pressure treated lumber 2x4, oriented vertically, spaced 16" (406mm) o.c. max

Metal Furring: hat channel, c-stud, or z-furring, minimum 18 gauge, oriented vertically, spaced 16" o.c. (406mm) max.

For AWP-3030 in a vertical orientation, please contact the Nichiha Technical Department.

### FURRING DESIGN & ENGINEERING

Furring to Concrete: Fastener type, size, and spacing to be determined under direction of an engineer and in accordance with local building codes.

AWP to Furring: Screws must penetrate wood furring a minimum of 1" (25mm) or steel by ½" (13mm). Refer to the *Fasteners* section in the appropriate installation guide.