



**Amvic Insulated Concrete Forms (ICF) are stay in place concrete forms used to form concrete walls, there are two versions of the Amvic ICF product line:**

### **AMVIC 2.22 ICF FORMS**

Amvic 2.22 ICF Forms are manufactured using two x 2.5" panels of Type 2 (1.5 lb./ft<sup>3</sup>) density Expanded Polystyrene (EPS) held together by polypropylene webs placed 6" on center.

### **AMVIC PLUS 3.30 ICF FORMS**

Amvic Plus 3.30 ICF Forms are manufactured using two x 3.25" panels of Type 2 (1.5 lb./ft<sup>3</sup>) density Expanded Polystyrene (EPS) held together by polypropylene webs placed 8" on center.

The Amvic ICF forms offer a 5 in 1 building system that incorporates wall structure, insulation, vapour barrier, sound barrier, and interior and exterior "framing" for attachment of drywall and exterior finishes.

An Amvic ICF wall assembly will provide an actual R Value of R 22 for the Amvic 2.22 ICF Form and R 30 for the Amvic Plus ICF Form, in comparison, traditional fiber insulation would need to be an R50 plus in order to perform at the same level as an Amvic ICF wall when you consider the insulation value, the thermal mass of the concrete and the air tightness. Which will provide energy bill savings of 30 to 50 % when compared to traditional home construction. An Amvic ICF wall will also provide an STC rating of 48-50 plus and has a 3 plus hour fire rating.

## **HOW DOES AMVIC COMPARE TO MAJOR ICF COMPETITORS?**

Product feature	Amvic	Amvic Plus	Nudura	Logix	Fox Blocks
Reversible blocks	yes	yes	yes	no	yes
Web spacing	6" o.c.	8" o.c.	8" o.c.	8" o.c.	8" o.c.
R Value	R22	R30	R22	R22	R22
Interlock	2" Form lock	new 2" FL	1" duralock	Double row	
Wire Hooks required	no	no	duralock	yes	yes
Form Capacity Testing	865 lbs. /psf	865 lbs/psf	522 lbs/psf	522 lbs/psf	522 lbs/psf
Rebar Holders on Web	yes / lock	yes / lock	yes	no	yes
XL corner	no	yes	no	no	yes
EPS panel thickness	2.5"	3.25"	2.625"	2.5"	2.625"
Engineering Software	yes	yes	no	no	no

Note: Additional construction costs for rebar ties, hooks, extra inventory for right and left forms etc. can add cost to the initial form cost. Check with your Amvic representative to see how these costs can factor into the overall cost of competitive forms vs. Amvic ICF.

## PRODUCT FEATURES

- Form Capacity strength of 865 lbs./sq. ft. by third party testing
- Fully reversible “Formlock”™ interlocking system with a 1” depth which provides superior connection strength, eliminates the need to glue, tape, tie or hook the blocks together.
- Webs have built-in rebar clips which can hold 2 courses of reinforcing steel, the clips are placed to maximize structural strength and layout as per the Building codes
- Designed to withstand internal vibration. Amvic is one of the few ICF blocks that recommends internal vibration ensuring complete concrete consolidation, as per building code requirement for placing concrete
- The webs are manufactured using 100% recycled material making the overall Amvic ICF form 60% recycled material by weight.
- Construction waste is less than 3%.

## FREQUENTLY ASKED QUESTIONS

### Why should I consider Using Amvic ICF over conventional formed poured wall systems?

Amvic ICF walls offer a 5 in 1 system as noted above, you only need one contracting group to install the forms, place the concrete, and install the insulation, air, vapour, sound barrier and framing. This eliminates additional trade's time and labour costs.

### What is the cost difference between ICF and Traditional formed walls?

As the national building codes are changing to require continuous insulation on both interior and exterior walls the cost of ICF vs. traditional poured foundation walls are approximately 2-3% higher however when you consider the energy savings, comfort and safety of an ICF wall system this cost is quickly recovered in the first few years of owning the home.

### Do I need to cover the ICF walls in a basement if I am not planning to use this area initially?

Building codes requires all foam insulation be covered with a 15 minute fire barrier such as drywall, or per the local building code. As the webs of the Amvic ICF forms provide the framing, no additional framing or vapour barrier is required providing additional living space.

### Do I need to have moisture protection on the exterior below grade walls?

As with all foundation walls moisture protection is required for all below grade areas in contact with living space. The moisture protection must be EPS compatible and can be a peel and stick membrane, spray, trowel applied or dimple board product similar to traditional foundation walls.

### Will I require additional engineering to use ICF for my foundation walls?

ICF's are part of the NBCC and the IRC and most traditionally designed house plans that comply with the building codes will not require additional engineering.

### Can I install ICF myself?

ICF construction is not considered a do it yourself (DIY) product, while stacking the blocks is a relatively simple process there are some key installation requirements that involve a trained ICF installer. Amvic does provide installation training and a list of qualified ICF installers.

### Why should I consider Amvic ICF over Competitive offerings?

Amvic has always had three major principles as the design criteria for our ICF forms, the forms are designed to be the strongest, easiest to use and eliminate as much construction waste as possible. In support of these principles, third party testing has shown that the Amvic ICF is the strongest block in the form capacity test at 865 lbs. / sq. ft., the fully reversible blocks incorporate the Patented FormLock technology that ensures the tightest interlock without the use of zip ties or hooks. (Amvic does recommend in some strategic areas the use of zip ties and hooks, this is optional) With the 6” O.C webs there are 2 extra webs per block, most cut pieces having a web can be used elsewhere in the project reducing construction waste.

### ICF Applications

ICF's are ideal for frost walls, stem walls, crawl space and replacement for traditional formed foundation walls, party walls, foundations and whole homes to the roof line.