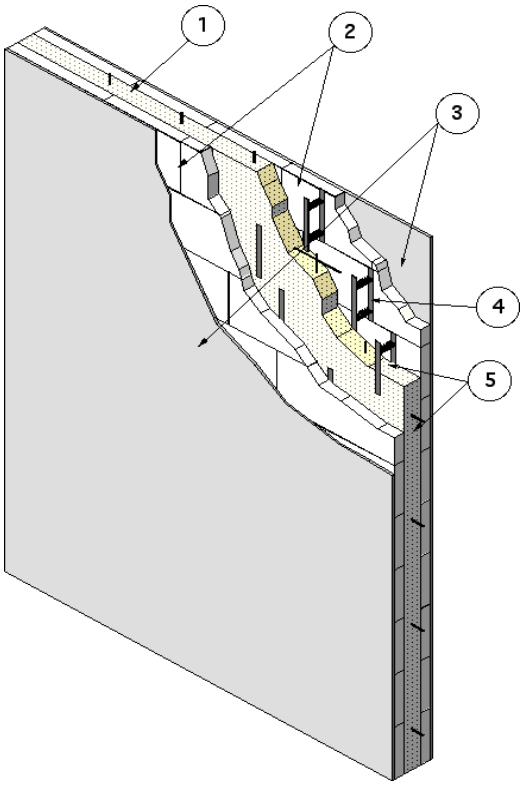
Airlite Plastics Co.
Design No. FXB/ICF 240-01
Fox Blocks and Fox Reveal Insulating Concrete Forms
ASTM E119, UL 263 and CAN/ULC-S101
Fire Rating Only - Load Rating Not Within the Scope of This Listing
Assembly Rating – 2 and 4 Hour



FORMED WALL THICKNESS	MAX FIRE RATING
4 in. (102 mm)	2 Hour
6 in. (152 mm)	4 Hour
8 in. (203 mm)	4 Hour
10 in. (254 mm)	4 Hour
12 in. (305 mm)	4 Hour

1. **CONCRETE:** Pour normal weight concrete (density typically between 145-155 pcf) having a min. 21 MPa (3,000 psi) nominal compressive strength into the forming system.

2. **FORMING SYSTEM:** The Fox Blocks ICF and Fox Reveal ICF forming system consists of Type 2 (CAN/ULC-S701) or Type II (ASTM C578) molded expanded polystyrene (EPS) foam panels with embedded polypropylene ties that come preassembled to form nominal concrete core thicknesses of 4 in. (102 mm), 6 in. (152 mm), 8 in. (203 mm), 10 in. (254 mm), and 12 in. (305 mm).

The Fox Blocks and Fox Reveal ICFs are produced in 48 in. length x 16 in. height (1220 mm x 410 mm) for all core thicknesses. The EPS panels have a nominal thickness of 2-5/8 in. (66.7 mm). The top and bottom of the EPS panels have an interlocking system which aligns the forms together as they are stacked.

Fox Blocks ICF systems have polypropylene ties spaced at 8 in. (203 mm) on center (oc) in the cavity of the ICF that include flanges acting as furring strips for mechanical fastening.

Fox Reveal ICFs have one EPS panel of the above-mentioned type and thickness on one side, and one plywood panel on the opposing side, forming nominal concrete core thicknesses of 6-5/8 in. (168 mm), 8-5/8 in. (219 mm), 10-5/8 in. (270 mm), 12-5/8 in. (321 mm), and 14-5/8 in (371 mm). The plywood panel is to be removed after the concrete is cured. The concrete is either left exposed or is covered as described in Item 3.

3. **SHEATHING AND EXTERIOR FINISHES (Optional):** Not required for the fire resistance ratings described in this listing.

   An approved thermal barrier may be installed subject to the requirements of the applicable Building Code.

   When desired, exterior finishes may be applied to the exterior side of the forming system wall assembly without diminishing the assembly rating. Exterior Insulation Finish System (EIFS), any exterior stucco, brick or brick veneer, non-combustible fiber cement, stone or stone veneer, cultured stone, and siding made from vinyl, aluminum, wood, or steel may be used. Apply exterior finishes in accordance with the manufacturer's instructions.

4. **POLYPROPYLENE FORM TIES:** Each 48 in. (1220 mm) length of ICF has six polypropylene ties. The polypropylene ties are spaced nominally 8 in. (203 mm) oc. The polypropylene ties are open to allow concrete to flow easily, and to allow seating for the placement of horizontal and vertical rebar placement.

5. **STEEL REINFORCEMENT:** Place the steel reinforcement before filling the forming system with concrete. The rebar used is to be designed and placed per the applicable Code requirements and approved by a registered design professional with the appropriate license for the Authority Having Jurisdiction.

6. **WALL ASSEMBLY:** The ICF wall assembly may be used as either an interior or exterior wall. ICFs exposed to the interior of a building shall have a thermal barrier attached. Exterior walls are only required to have a thermal barrier on the side facing the interior of the building. The fire resistance rating is applicable to the ICF wall assembly from either side.

Consult the listing report on the Directory of Building Products (https://bpdirectory.intertek.com) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.