



LISTING INFORMATION OF BuildBlock® and BuildLock® Insulating Concrete Forms (ICFs)

SPEC ID: 32872

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The BuildBlock® and BuildLock® ICFs consist of two Type II, expanded polystyrene (EPS) foam panels separated by injection-molded polypropylene cross-ties which are partially embedded into the EPS panels. BuildLock® ICFs are knock-down versions of BuildBlock® ICFs. BuildLock® ICFs are shipped as components and are assembled on a jobsite.

The polypropylene cross-ties maintain the EPS facings at a fixed clear distance of 4 inches (102 mm), 6 inches (152 mm), 8 inches (203 mm), 10 inches (254 mm) or 12 inches (305 mm) to create overall form widths of 9 inches (229 mm), 11 inches (279 mm), 13 inches (330 mm), 15 inches (381 mm) or 17 inches (432 mm). The form units have a preformed interlocking mechanism along the top and bottom edges, to facilitate interlocking and stacking. BuildBlock® ICFs are available in standard, 45-degree angle corners, 90-degree angle corners and ledge forms. The ledge forms are used to construct corbels that serve as ledgers to support exterior brick veneers and interior floor systems. BuildLock® ICFs are available in standard and 90-degree angle forms.

FIRE RESISTANCE

STANDARD	RATING	DESIGN LISTING
ASTM E119	3-Hour Load Bearing or Non-load Bearing	BBS/ICF 180-01

<u>Attribute</u>	<u>Value</u>
Code Reports	Yes
Criteria	ASTM E119 (2012)
Criteria	ASTM E2634 (2011)
Criteria	ICC-ES AC353 (2012)
CSI Code	03 11 19 Insulating Concrete Forming
Intertek Services	Certification
Listed or Inspected	LISTED
Listing Section	CONCRETE FORMS
Report Number	3075531; 3170299; 3089785; 3075407; 3074552; 3089543; 3089581; 3098822; 3083037; 3163402; 101138544; 101302048
Spec ID	32872

DRAWING INDEX

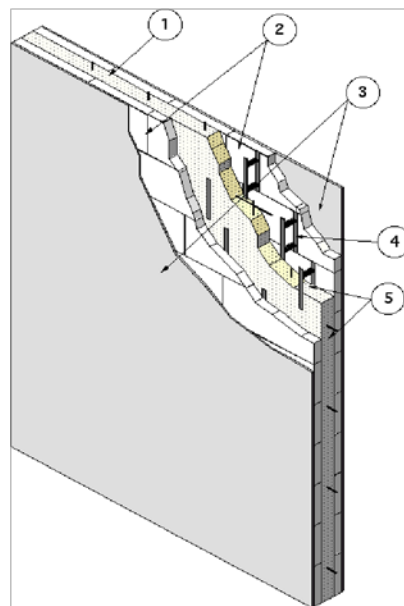
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Design Number BBS/ICF 180-01
BUILDBLOCK® AND BUILDLOCK® INSULATED CONCRETE FORMS
 BuildBlock Building Systems, LLC
 ASTM E119
 Load Bearing and Non-load Bearing Fire Resistance Rated Wall Assemblies
 Maximum Load 5000 lb/in ft
 Assembly Rating – 3 Hour Rating



<u>FORMED WALL THICKNESS</u>	<u>MAX FIRE RATING</u>
11 in. (279 mm)	3 Hours
13 in. (329 mm)	3 Hours
15 in. (381 mm)	3 Hours
17 in. (432 mm)	3 Hours

1. CONCRETE: Pour normal weight concrete (density between 150-155 pcf) having a minimum 3,000 psi (21 MPa) nominal compressive strength into the forming system (Item 2).

2. CERTIFIED MANUFACTURER:
 BuildBlock Building System, LLC

CERTIFIED PRODUCT: BuildBlock® and BuildLock® Insulated Concrete Forms (ICF)

FORMING SYSTEM: The BuildBlock® and BuildLock® ICF forming system consists of Type II (ASTM C578)

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molded expanded polystyrene (EPS) foam panels separated by injection molded polypropylene cross ties. The polypropylene cross ties maintain the EPS panel facings at a fixed distance of 6 in. (152 mm), 8 in. (203 mm), 10 in. (254 mm) or 12 in. (305 mm) to create overall form widths of 11 in. (279 mm), 13 in. (330 mm), 15 in. (381 mm) or 17 in. (432 mm) respectively. The form units have a preformed interlocking mechanism along the top and bottom edges to facilitate interlocking and stacking.

3. INTERIOR AND EXTERIOR FINISHES (Optional): Interior and exterior finishes may be added to BuildBlock® ICFs without affecting the fire-resistance rating as required by BuildBlock's Code report
4. POLYPROPYLENE FORM TIES: Every 6 in. (152 mm) on center, the cross ties connect the EPS foam plastic panels at a fixed clear distance. The flange of the tie measures 1-1/2 in. wide by 15 in. high by 3/16 in. thick (38 mm by 381 mm by 4.8 mm) and is recessed 1/2 in. (12.7 mm) below the EPS surface. The flange is used for attachment of exterior and interior finish materials.
5. STEEL REINFORCEMENT: Steel reinforcement shall be placed before filling the forming system with concrete (Item 1). #5 steel rebar is placed horizontally at 32 in. (813 mm) on center and every 24 in. (610 mm) on center. The rebar 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. ADHESIVE (Not Shown): A bead of Foam2Foam™ polyurethane adhesive manufactured by Wind-lock foam shall be applied along all joining surfaces of ICFs.

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