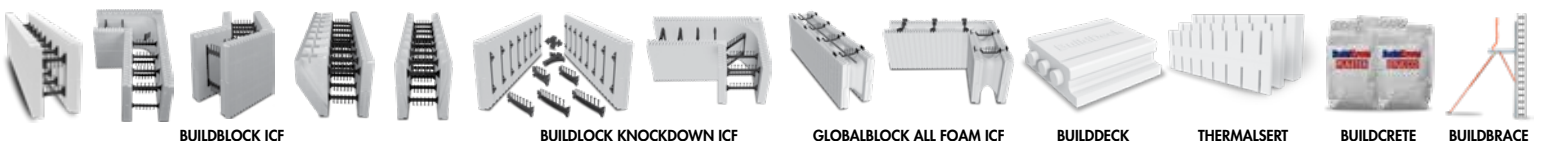




NOTICE: This manual is a supplement to the BuildBlock Installation Manual and covers particular aspects regarding the compliance with Florida Building Code (FBC). Anything not covered in this manual is superseded by the BuildBlock Installation Manual, the Prescriptive Method, Local or International Codes, or Project Specific Engineering.

# BUILDBLOCK FLORIDA BUILDING CODE INSTALLATION & TECHNICAL MANUAL



BUILDBLOCK ICF

BUILDLOCK KNOCKDOWN ICF

GLOBALBLOCK ALL FOAM ICF

BUILDDECK

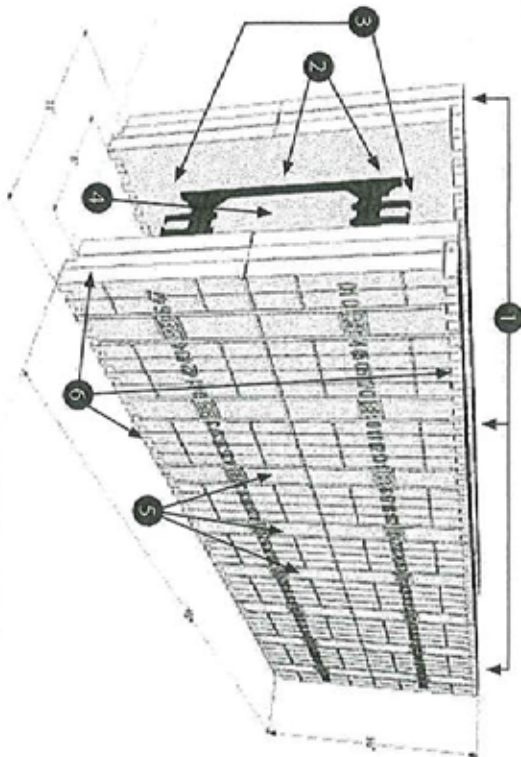
THERMALSERT

BUILDCRETE

BUILDBRACE



# INSTALLATION AND TECHNICAL MANUAL



**MANUFACTURING LOCATION**  
 Lifoam 2601 Anvil St. North  
 St. Petersburg, FL 33710

**MANUFACTURED WITH:**  
 BASF Styropor Type BF, BF L, F, KF, MF  
 Flint Hills Resources, LP grades 54, 40

1. Expanded Polystyrene Foam Panels
2. Patented Polypropylene Webs
3. Reinforcing Steel Lock-down Fingers
4. Concrete Core
5. Furring Strip Identification Marks
6. Reversible Top and Bottom Interlocks
7. Expanded Polystyrene Foam Buck Panel
8. Patented Extruded Polystyrene Webs with
9. Integrated Concrete Anchors
9. Buck Core Alignment Guide
10. Buck Furring Strip Identification Marks

**NOTES**

This approval pertains to the insulation properties of BuildBlock Insulating Concrete Forms Only. This approval does not imply approval of the concrete used within the form system or the structural and/or forming capacity of the material and the system, including BuildBuck.

**IMPORTANT: PROTECT PRODUCT FROM UV EXPOSURE BY ENSURING ANY EXTERIOR EXPOSED SURFACE IS EITHER FINAL FINISHED OR CLAUDED WITH TEMPORARY UV PROTECTION WITHIN 30 DAYS OF INSTALLATION.**

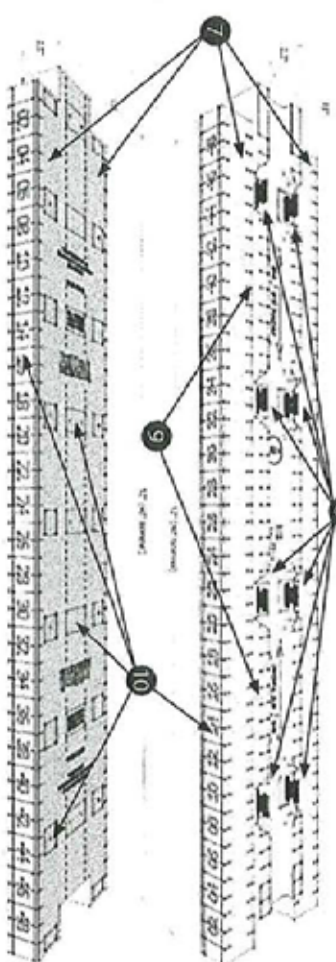
**BUILDBLOCK INSULATING CONCRETE FORM SYSTEM DESCRIPTION**

BuildBlock Building Systems, Insulating Concrete Forms (ICF) are stay in place forms resulting in a monolithic reinforced flat concrete wall 4", 6", 8", 10" or 12" thick, built to the industry standard size of 16" high by 48" long. The forms are manufactured using expanded polystyrene (EPS) Type II, with a density of 1.5 pcf. The two 2.5" foam panels are connected using engineered webs made from high density Polypropylene plastic web ties.

BuildBlock Insulating Concrete Forms are made from EPS beads compliant to ASTM E-84, with a flame spread index of 25 or less and a smoke developed index of less than 450.

BuildBuck is a wall opening block-out or buck system designed to integrate into wall systems constructed of BuildBlock ICF blocks or any approved ICF system of the same dimensions.

BuildBlock Forms comply with Florida Building Code 2012



**PRODUCT CHARACTERISTICS - EPS RESINS**

Material Property	Standard	Result	Status
Thermal Insulation	ASTM C 578-12b	4.08 R/in.	Pass
Flammability Test	ASTM D 635-10	22.3 mm/min.	Pass
Fastener Lateral/Withdrawal Resistance	ASTM D 1761-06	129 lb	Pass
Spontaneous Ignition Temperature	ASTM D 1929-12	752° F	Pass
3-Hour Fire Resistance	ASTM E 119-2012A	5000 lb	Pass
Water Penetration Test	ASTM E 331-00 (2009)	0 visible pen.	Pass
Density	ASTM D-1622M-14	1.46	Pass
Flexural Strength	ASTM C-203-05a	52.15	Pass
Compressive Strength	ASTM D-1621-10	22.21	Pass
Flame Spread Index	ASTM E-84-2013A	5	Pass
Smoke Developed Index	ASTM E-84-2013A	250	Pass
Self Ignition Temperature	ASTM D - 1929-12	707° F	PASS
Rate of Burning	ASTM D - 635-10	0.88"/min.	C-1

Product Characteristics - Polystyrene Web Tie

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 19-1205.06  
 Expiration Date 02/03/2025

By: *[Signature]*  
 Miami-Dade Product Control

ROBERT F. OLECK  
 No. 5257  
 PROFESSIONAL ENGINEER

REG. FLORIDA ENG. No. 5257  
 REG. FLORIDA ENG. No. 5257  
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**MANUFACTURER**  
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 Oklahoma City, OK 73114  
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 (405) 992-0792  
 buildblock.com

Title	Revision No.	Date
BuildBlock Building Systems - Insulating Concrete Form System	006	07/17/10

## INSTALLATION AND TECHNICAL MANUAL

The following table lists the relevant documents to use for more detailed information.

<b>International Building Code (IBC) International Residential Code (IRC)</b>	National / International Codes governing the use of ICFs.
<b>Florida Build Code Miami Dade Notice of Acceptance</b>	State / Local Codes governing the use of ICFs.
<b>Prescriptive Method</b>	General engineering for ICFs created by the United States Department of Housing and Urban Development.
<b>PCA 100</b>	General Engineering for ICFs created by the Portland Cement Association.
<b>Site Specific Engineering</b>	Specific engineering relating to the conditions relevant to a single build created by a licensed engineer of record in a specific state.
<b>ASTM E 2634</b>	ASTM Standard Specification for Flat Wall Insulating Concrete Form (ICF) Systems in Construction.
<b>AC 353</b>	ICC Acceptance Criteria for Stay-in-place, Foam Plastic Insulating Concrete Form (ICF) Systems for Solid Concrete Walls in construction.
<b>BuildBlock Install &amp; Technical Manual</b>	The BuildBlock Install & Technical Manual contains installation instructions, best practices and general information for installation of BuildBlock ICFs.



If you have any questions or concerns, please contact The BuildBlock Technical Department.

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