

**Entry and Foyer**

- Two-story foyer
- Custom craftsman-style wood front door with glass
- Sand and Finish Flooring

**Dining Room**

- Custom Trimwork with coffered ceilings, craftsman style paneling, etc.
- Sand and Finish Flooring

**Family/Great Room**

- 42” wood burning fireplace with glass doors and recirculation
- Pre-wired and braced for ceiling fan with light kit
- Multiple recessed lights
- Volume ceiling
- Sand and Finish Flooring

**Kitchen/Breakfast Area**

- Cabinets – Homecrest Cabinets / concealed hinges, raised panel with soft close doors & dovetail drawers
- Appliances: double oven, built in drawer type microwave, dishwasher, 36” professional Thermador gas cooktop and refrigerator
- Granite Counter Tops with farmhouse sink
- Tile Backsplash with decorative accent over cooktop
- Sand and Finish Flooring
- Multiple recessed lights

**Master Suite**

- Trey ceiling
- Multiple recessed lights
- Pre-wired and braced for ceiling fan with light kit
- Walk-in closet with wood shelving
- Sand and finish flooring

**Bath**

- Granite Counter Tops
- Tile shower with decorative accents
- Double bowl vanities
- 5’/6’ CUSTOM Jetted Tub (per plan)
  - Tile Surround w/ Tile Front on Jetted Tub
- Tile Flooring
- Oil Rubbed Bronze Fixtures (two knob on 8” center)
- Window over tub with grids and obscure glass

**Hall Bath (secondary baths)**

- Granite Counter Tops
- Oil Rubbed Bronze Fixtures
- Tile Flooring
- Ceramic tubs with tile surrounds
- One bath has tile shower with simulated marble floor

**Laundry**

- Tile Flooring
- Washer/Dryer Connections
- Base cabinet with sink & wall cabinets

**Interior Features**

- Smooth Ceilings Throughout
- Bronze doorknobs/hinges
- Carpeted areas - 6lb pad
- Generously appointed recessed lighting throughout
- Extensive wood trim throughout
- Study/Office – sand and finish flooring
- Staircases – full wood stain treads

- Media room with surround sound & projector prewire location

**Safety Features**

- Full Alarm system ready for activation, key pad at rear entry Hard-wired smoke detector with battery backup
- Security system able to be controlled by smart phone application
- Ground fault interrupt circuits
- Copper wiring
- Storm vault under poured front porch

**Exterior Features**

- Finished side entry three car garage
- Windows – MW windows professional series 200 low e coating, double paned, double hung, argon gas filled high efficiency
- Low maintenance fiber cement exterior soffits & fascia
- Fiber Cement siding, stone/brick per rendering/plan with Tyvek home wrap
- Massive covered rear porch with recessed lighting, fan
- Baked enamel aluminum gutter/downspouts
- 30-year fiberglass shingles (weathered shake)
- Irrigated sodded areas with generous shrub package

**Energy Related Items**

- Zoned HVAC – high efficiency 14 SEER 90% efficiency (gas furnace) with programmable thermostats
- Windows – low e coating, double paned, double hung, argon gas filled high efficiency
- Whole home high efficiency on demand hot water heating system
- Spray foam insulation

**Homeowner Care Program**

- New home care orientation with pre-closing walk-through
- 2-10 Home Buyer’s Limited Warranty (1yr Builder’s Warranty Incl.)
- Warranty E-mail: [warranty@greenconstructionllc.com](mailto:warranty@greenconstructionllc.com)
- 1 year termite bond at closing

**Don’t forget : our eight generations of construction experience is included! (link below)**  
[http://www.greenconstructionllc.com/Files/03.05.10%20-%20HERITAGE%20\(reduce\).pdf](http://www.greenconstructionllc.com/Files/03.05.10%20-%20HERITAGE%20(reduce).pdf)

[www.greenconstructionllc.com](http://www.greenconstructionllc.com)

**Check out our facebook page for progression photos and more information on the home.**

Builder reserves the right to change and modify these standard features without notice. When used as Exhibit C” of a new purchase and sale agreement, features on this sheet will not change.



# DAVID LEWIS CONSTRUCTION, INC.

6/22/15  
Bid for:  
Green Forest  
Allentown

- Installing cornice including:
  - 8" 4/4 Epex fascia
  - 8" 5/4 Epex frieze
  - 12" fiber cement soffit
  - 2" 4/4 fiber cement frieze
  
- Installing fiber cement band including:
  - 4/4 fiber cement drip cap
  - 4/4 10" Epex band board
  - 26 Ga metal flashing with Protecto window tape
  
- 6" 5/4 fiber cement comers
- Blue label Western Red cedar shakes
- 7.25" smooth fiber cement siding
- PVC Gable vents on front x 3
- Corbels and Brackets on front elevation
- Epex wrapped columns
- Window Trim to include:
  - 5/4 6" Epex
  - 4/4 fiber cement sill nosing
  - 5/4 4" Epex under sill nosing
  - 4/4 fiber cement drip cap

Thank you for allowing us the opportunity to bid this job. This bid is valid for 45 days. All invoicing will be done at completion and payment is due in full net 5 days from invoice.

If you have any questions, please don't hesitate to give us a call.

Best regards,

David Lewis  
(770) 375-7331

**Proposal**  
**AIR COMFORT SOLUTIONS**  
d/b/a



9296 S. MAIN STREET  
JONESBORO, GA. 30236  
(770) 471-8078 FAX (678) 610-8263

PROPOSAL SUBMITTED TO: <b>Jason Betsill</b>	PHONE <b>(770)460-9925</b>	DATE <b>07/16/15</b>
STREET <b>7770 Newnan Road, Suite D</b>	JOB NAME <b>Allentown</b>	
CITY, STATE AND ZIP CODE <b>Brooks, Ga 30205</b>	JOB LOCATION <b>19 Woodbridge - Fayette County</b>	

We Propose hereby to furnish material and labor – complete in accordance with specifications below, for the sum of:

Payment to be made as follow:

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from specifications below involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Signature: Jason Cowart

Note: This proposal may be withdrawn by us if not accepted within 90 days.

We hereby submit specifications and estimates for:

**Price to Furnish & Install 2 Central Heat & Air Systems Complete with All Materials & Labor,  
Gas Line 5-Openings, & 2-Air Cleaners**

**Main Level**

**1 – Amana 80,000 BTU Furnace 80%**

**1 – Amana 4 Ton Coil**

**1 – Amana 3.5 Ton 14 Seer A/C**

**1 – Air Cleaner**

**Upstairs**

**1 – Amana 60,000 BTU Furnace 80%**

**1 – 3 Ton Amana Coil**

**1 - Amana 2.5 Ton 14 Seer A/C**

**1 – Air Cleaner**

ROBINSON ELECTRICAL SERVICES LLC  
 Phone (404) 242-6147  
 Concord, GA 30206  
 robinsonelectricalservices@gmail.com

# ESTIMATE

GREENFOREST CONSTRUCTION LLC  
 LOT#19 WOODBRIDGE FARMS  
 FAYETTE CO.  
 UNFINISHED BASEMENT

**Estimate #** 0002200

**Estimate Date** 07/14/2015

Item	Description	Unit Price	Quantity	Amount
	200 AMP SERVICE SQ FT RATE		3695.00	
	Electrical wiring to code to include wiring and bracing for ceiling fans in all bed rooms, family, bonus/media and one rear covered porch.			
	PACKAGE INCLUDES UP TO:			
	2 Furnace circuits			
	2 A/C circuits			
	2 Stove circuits			
	2 Flood light prewires			
	2 Pendant light prewires			
	Optional Smoke/Carbon Minoxide Detector Fixtures Supplied		1.00	
	2015 Code Charge		1.00	
	Service 400 amp upgrade		1.00	
	Recess Lighting regular 6" (rough and trim) 5 kitchen as pkg. total 44		39.00	
	Recess Lighting 4" mini cans (rough and trim)		11.00	
	Undercabinet lighting prewire		5.00	
	Unfinished basement wired to code only		1.00	
	Bath Fan Upgrade 80cfm		5.00	
	Jetted tub 20amp 120volt GFCI circuit		1.00	



220-A Industrial Way  
 Fayetteville, GA 30215  
 770-461-3384  
 770-716-2326—Fax  
 www.getcrown.com

**Proposal**

Proposal No. 1001227  
 Proposal Date 7/23/15  
 SalesPerson AH  
 Site Contact  
 Telephone  
 Fax Number

Prepared For  
 Green Forest Const.  
 7770 Newnan Rd.  
 Brooks, GA

Job Site  
 Green Forest Const.  
 7770 Newnan Rd.  
 Brooks, GA

**System Detail**

Qty	Description	Part Number	Category	Amount
				<i>Total</i>
<b>Audio</b>				
1.00	Theatre Package B	Theatre B	Audio	
<b>Camera</b>				
4.00	Prewire Per Camera.	Camera Prewire	Camera	200.00
<b>Communications</b>				
7.00	Cable TV Prewire	JBCABLEPW	Communications	
7.00	Cable TV Trim	JBCABLETRIM	Communications	
7.00	Telephone Prewire	JBPHONEPW	Communications	
7.00	Telephone Jack Trim	JBPHONETRIM	Communications	
4.00	Cat 5 E Data Jack	DATA	Communications	
1.00	Structured Can And Module	ST Can & Module	Communications	
<b>Security System</b>				
1.00	Standard Rough	JBSSROUGH	Security System	
1.00	Charge For Basement	JBBASEMENT	Security System	
1.00	Trim With 2 Gig System 2 Pads	JB2GIG	Security System	

# **BASF** Technical Product Data

We create chemistry

## ENERTITE® IB-418 LOW-DENSITY, OPEN-CELL INSULATION

### DESCRIPTION:

**ENERTITE IB-418** is a two-component low-density open-cell spray polyurethane foam system designed for use in residential construction and common commercial insulation applications. **ENERTITE IB-418** is compatible with most common construction materials but can only be processed with ELASTOSPRAY® 8000A Isocyanate. The benefits of **ENERTITE IB-418** include:

- Ignition Barrier in Limited-Access Attics and Crawlspace
- Superior insulation
- Non-fibrous
- Sound control

### TYPICAL PROPERTIES<sup>(1)</sup>:

PROPERTY	METHOD	ENERTITE IB-418
<b>Resin:</b>		
Specific Gravity @ 70°F	ASTM D1638	1.135
Viscosity @ 77°F (cps)	Brookfield	350
<b>Cured Foam:</b>		
Density, core (pcf @ 4" lifts)	ASTM D1622	0.6 – 1.0
Open Cell Content (%)	ASTM D6226	>90
Thermal Resistance (aged)		
R-value (ft <sup>2</sup> hr °F/Btu in) <sup>(2)</sup>	ASTM C518	4.1 / in @ 1-in thick 3.8 / in @ 4-in thick
Tensile Strength	ASTM D1623	3.3 psi
<b>Surface Burning Characteristics</b>		
Flame Spread Index <sup>(3)</sup>	ASTM E84	≤ 25
Smoke Developed Index	ASTM E84	≤ 450

(1) These physical property values are typical for this material as applied at our development facility under controlled conditions. SPF performance and actual physical properties will vary with differences in application (i.e. ambient conditions, process equipment and settings, material throughput, etc.). As a result, these published properties should be used as guidelines solely for the purpose of evaluation. Physical property specifications should be determined from actual production material.

The above data was collected from samples prepared using the following equipment configuration:

- GRACO® Reactor® E-30 proportioner set at 1:1 volume ratio with 50 ft. of heated delivery hose
- GRACO® Fusion® Air Purge spray-gun configured with an AR4242 mix chamber
- Process temperature settings: Isocyanate 100-110°F; Resin 100-110°F; Hose 100-110°F
- Process pressure: 1000 psig minimum while spraying

(2) The data chart shows the R-value of this insulation. "R" means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation will depend upon the climate, the type and size of your house, and the fuel use patterns and family size. If you buy too much insulation it will cost you more than what you will save on fuel. To achieve proper R-values, it is essential that this insulation be installed properly.

### ADDITIONAL TESTING:

- ASTM E84 (Class I) <sup>(3)</sup> <sup>(4)</sup>
- AIR LEAKAGE / AIR PERMEANCE

PROPERTY	METHOD	THICKNESS	ENERTITE IB-418
Air Leakage	ASTM E283	3.5 inches	<0.02 L/s-m <sup>2</sup> @ 75 Pa
Air Permeance	ASTM E2178	3.5 inches	<0.02 L/s-m <sup>2</sup> @ 75 Pa

- ATTIC and CRAWL SPACE assemblies (ICC-ES AC377, Appendix X)
  - > No Covering Required
    - 12 inches (max) thickness in Wall
    - 16 inches (max) thickness in Ceilings
  - > As a covering over ENERTITE NM
    - 2 inches (min) covering 10 inches (max) ENERTITE NM in Walls
    - 2 inches (min) covering 14 inches (max) ENERTITE NM in Ceilings
  - > No coating required when installed in accordance with the limitations described in Section X2.2 of ICC-ES Acceptance Criteria AC377 Approved November 2012 (Editorially corrected April 2013).

### ADDITIONAL INFORMATION:

Odor level of spray polyurethane foam is dependent on proper application using the recommended processing parameters.

Caution-Failure to follow the application precautions, material safety data sheet information as well as accepted industry practices ([www.spraypolyurethane.org](http://www.spraypolyurethane.org)) may result in unwanted foam physical properties and applications that may not provide the desired results. This also includes unwanted health risks such as possible respiratory issues, sensitization or eye irritations such as blue haze for applicators and workers located in the area being sprayed. A full understanding of the foam processing and all safety risks must be completed before spraying. Call our BASF spray foam team if you have questions 800-706-0712.

Please contact your local Sales or Technical Representative for specific questions regarding **ENERTITE IB-418** properties, approvals, or certifications.

(3) This numerical flame spread rating does not reflect hazards presented by this or any other material under actual fire conditions. Polyurethane foam systems should not be left exposed and must be protected by a minimum 15-minute thermal barrier or other code-compliant material as allowed by applicable building code(s) and Code Officials. Building Codes provide guidelines representing minimum requirements. Further information is available at [www.iccsafe.org](http://www.iccsafe.org). Consult all Authorities Having Jurisdiction (AHJ) over an area for additional or specific requirements prior to beginning any project.

(4) ASTM E 84 is a test designed for sample thickness up to four (4) inches. NFPA 286 is a building code recognized alternative test conducted on large-scale assemblies to evaluate foam thickness in excess of four (4) inches.

**enertite**

Open-Cell Spray Polyurethane Foam Insulation



**GENERAL INFORMATION:**

ENERTITE IB-418 is a spray polyurethane foam (SPF) system intended for installation by qualified contractors trained in the processing and application of SPF systems, as well as the plural-component polyurethane dispensing equipment required to do so. Contractors and applicators must comply with all applicable and appropriate storage, handling, processing and safety guidelines. BASF technical service personnel should be consulted in all cases where application conditions are questionable.

**CAUTIONS AND RECOMMENDATIONS:**

ENERTITE IB-418 is designed for an application rate of ½ inch minimum to 6 inches maximum per pass. Once installed and material has cooled, it is possible to add additional applications in order to increase the overall installed thickness of SPF. Thicker installations are allowed based on large scale testing. Please see ESR-3102 for additional information. This application procedure is in compliance with the Spray Polyurethane Foam Alliance (SPFA).

ENERTITE IB-418 is NOT designed for use as an EXTERIOR roofing system. BASF offers a separate line of products for exterior roofing applications. For more information, please contact your sales representative.

Cold-storage structures such as coolers and freezers demand special design considerations with regard to thermal insulation and moisture-vapor drive. ENERTITE IB-418 should NOT be installed in these types of constructions unless the structure was designed by a design professional for specific use as cold storage.

ENERTITE IB-418 is designed for installation in most standard construction configurations using common materials such as wood and wood products, metal and concrete. ENERTITE IB-418 has performed successfully when sprayed onto wood substrates down to 40°F. For other substrates, please consult your BASF sales or technical service representative for specific recommendations.

Foam plastic materials installed in walls or ceilings may present a fire hazard unless protected by an approved, fire-resistant thermal barrier with a finish rating of not less than 15 minutes as required by building codes. Rim joists/header areas, in accordance with the IRC and IBC, may not require additional protection. Foam plastic must also be protected against ignition by code prescribed or properly tested materials in attics and crawl spaces. See relevant Building Codes and [www.iccsafe.org](http://www.iccsafe.org) for more information.

In addition to reading and understanding the MSDS, all contractors and applicators must use appropriate respiratory, skin and eye Personal Protective Equipment (PPE) when handling and processing polyurethane chemical systems. Personnel should review the following documents published by Spray Polyurethane Foam Alliance (SPFA):

AX-171 *Course 101-R Chapter 1: Health, Safety and Environmental Aspects of Spray Polyurethane Foam and Coverings*  
[www.spraypolyurethane.org](http://www.spraypolyurethane.org)

Also, the following document is available from the Center for the Polyurethanes Industries (CPI):

*Model Respiratory Protection Program for Compliance with the Occupational Safety and Health Administration's Respiratory Protection Program Standard 29 C.F.R. §1910.134*

As with all SPF systems, improper application techniques should be avoided. Examples of improper application techniques include, but are not limited to excessive thickness of SPF, off-ratio material and spraying into or under rising SPF. Potential results of improperly installed SPF include: dangerously high reaction temperatures that may result in fire and offensive odors that may or may not dissipate. Improperly installed SPF must be removed and replaced with properly installed materials.

LARGE MASSES of SPF should be removed to an outside safe area, cut into smaller pieces and allowed to cool before discarding into any trash receptacle.

All areas that are sprayed incorrectly or result in A only material, B only material, improperly mixed or off ratio materials, too thick of an application or two quick of a thickness build up, are to be removed and replaced with properly processed spray foam. All cleaning solvents and others materials are to be captured and properly disposed of and not left at the job site.

SPF insulation is combustible. High-intensity heat sources such as welding or cutting torches must not be used in contact with or in close proximity to ENERTITE IB-418 or any polyurethane foam.

**SHELF LIFE AND STORAGE CONDITIONS:**

ENERTITE IB-418 has a shelf life of approximately three (3) months from the date of manufacture when stored in original, unopened containers at 50-80°F. As with all industrial chemicals, this material should be stored in a covered, secure location and never in direct sunlight. Storage temperatures above the recommended range will shorten shelf life. Storage temperatures above the recommended range may also result in elevated headspace pressure within packages.

**LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY:**

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. Customer assumes full responsibility for quality control, testing and determination of suitability of products for its intended application or use. We warrant that our products will meet our written liquid component specifications. We make no other warranty of any kind, either express or implied, by fact or law, including any warranty of merchantability or fitness for a particular purpose. Our total liability and customers' exclusive remedy for all proven claims is replacement of nonconforming product and in no event shall we be liable for any other damages.



# INSULATION CARD - DO NOT REMOVE



The Chemical Company

**This form must be filled out and posted to comply with building code and FTC requirements. Meets IRC Section N1101.4 requirements. - Please post near electrical panel.**

## PLEASE ATTACH PRODUCT TECHNICAL DATA SHEET BEFORE POSTING

The following spray polyurethane foam insulation system(s) has been installed. Consult International Building Code, Section 2603 Foam Plastic Insulation, International Residential Code (IRC) R314 Foam Plastics, or International Energy Conservation Code (IECC) Section 102 for specific requirements.

### BASF Corporation Product(s) Installed:

- Enertite Nominal 0.5 pcf Density (Open-cell Spray Polyurethane Foam)
- Spraytite Nominal 2.0 pcf Density (Closed-cell Spray Polyurethane Foam)
- Comfort Foam Nominal 2.0 pcf Density (Closed-cell Spray Polyurethane Foam)

This spray polyurethane foam insulation system has been installed in accordance with manufacturer's processing guidelines to provide a thermal resistance of...(see R-value chart on reverse)

Area Insulated	R-Value	Thickness*
Attic Area	R- 19 @	5 1/2 inches
Sloped Ceilings	R- 19 @	5 1/2 inches
Walls (Where: 1st Floor )	R- 13 @	3 1/2 inches
Walls (Where: 2nd Floor )	R- 13 @	3 1/2 inches
Floors (over an unheated crawl space)	R- 19 @	5 1/2 inches
Crawl Space Perimeter	R- N/A @	inches
Basement Interior Walls	R- N/A @	inches
Other (Where: )	R- N/A @	inches

\*Nominal thicknesses are representative of a field, spray-applied foam material.

(Please Print Clearly)

Jobsite Location: 179 Huckaby rd Date Installed: 9/4/15

Building Contractor: Greenforest Construction LLC

Insulation Contractor: Builders Insulation Phone: (770) 460-3008

Installed By: Shawn Cowell

**Caution— No Hot Work-Polyurethane foam is combustible and should be treated as such. No welding or cutting unless foam has been protected from accidental ignition by open flame.**



# INSULATION CARD - DO NOT REMOVE

## Installed R-value Charts

Enercite 1/2# Open-cell Spray Foam			
Frame Wall Sizing (Wood)	OC SPF (inch)	Total R-value*	U-factor**
2x4	3.5"	13	0.077
2x6	3"	11	0.091
2x6	4"	15	0.066
2x6	5.5"	21	0.048
2x8	5"	19	0.053
2x8	6"	22	0.045
2x8	7.5"	28	0.036
2x10	8"	30	0.033
2x10	9.5"	35	0.029
2x12	10"	37	0.027
2x12	11.5"	43	0.023
Roof Joists	12"	45	0.022
Roof Joists	13"	48	0.021
Roof Joists	14"	52	0.019
Roof Joists	15"	55.5	0.018
Roof Joists	16"	59	0.017

Spraytite/Comfort Foam 178 Series Closed-cell Spray Foam			
Frame Wall Sizing (Wood)	CC SPF (inch)	Total R-value*	U-factor**
Any	1"	6.7	0.149
Any	1.5"	10	0.100
Any	2"	13.4	0.075
2x4	2.5"	16.8	0.056
2x4	3"	20.1	0.050
2x6	2"	13.4	0.075
2x6	2.5"	16.8	0.056
2x6	3"	20.1	0.050
2x6	3.5"	24.2	0.041
2x6	4"	27.6	0.036
2x6	4.5"	31.1	0.032
2x8	5"	34.5	0.029
2x8	5.5"	38	0.026
2x8	6"	41.4	0.024
2x8	7"	48.3	0.021
2x10	8"	55.2	0.018
2x10	9"	62.1	0.016
2x12	10"	69.1	0.014
2x12	11"	76	0.013

### \*What You Should Know About R-values

These chart shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel. To get the marked R-value, it is essential that this insulation be installed properly.

\*\*U-factor is the inverse of R-value as represented in BTU / (h °F ft²). The lower the number, the better the performance of the material or assembly. Using U-factor requires SPF is used within an Opaque Assembly. If used in a rafter assembly in a sealed attic approach, the SPF must be wrapped around all framing to ensure continuity.

**Caution— No Hot Work - Polyurethane foam is combustibile and should be treated as such. No welding or cutting unless foam has been protected from accidental ignition by open flame.**

BASF Corporation  
1703 Crosspoint Avenue  
Houston, TX 77054  
Tel: 800-796-9743  
www.spf.basf.com



ISO 9001:2000 Accredited Facility - Houston, TX

**INSULATION CARD - DO NOT REMOVE**