



1. Product Name

- Foamsulate™ 50

2. Manufacturer

Accella™ Polyurethane Systems, LLC
 100 Enterprise Drive
 Cartersville, GA 30120
 Phone: (844) 922-2355
 Fax: (844) 922-2355
 Email: sprayfoam@accellapolyurethane.com
 Web: www.premiumspray.com

3. Product Description

Basic Use

Foamsulate™ 50 is an insulation system designed for use in residential, commercial and industrial applications. Use in lieu of more traditional forms of insulating materials such as fiberglass, cellulose or other loose fill products.

Composition and Materials

Foamsulate™ 50 is a two-component, light density, one-to-one by volume spray applied polyurethane foam. Foamsulate 50 requires the use of an “A” component (ISO) and a blended “B” component (resin) which contains zero ozone depleting blowing agents, catalysts, polyols and fire retarding materials.

Features and Benefits

- Superior R-value
- Rigorous third-party testing
- ICC and FBC certifications
- A low viscosity, 0.5 pcf density open cell insulating material
- Designed to provide significant control of air infiltration along with a high R-value per inch
- When properly installed by a professional application company Foamsulate™ 50 quickly expands to fill the cracks, crevices, gaps and voids that exist in every structure
- Will conform to the curves, irregular surfaces and spaces to form a superior thermal envelope around your entire structure

Safety Data Sheets (downloadable)

- **Foamsulate™ 50 A component**
- **Foamsulate™ 50 B component**



4. Technical Data

Applicable Standards

ASTM International

- **ASTM C423** Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- **ASTM C518-2010** Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- **ASTM D1621-2010** Standard Test Method for Compressive Properties of Rigid Cellular Plastics

Table 1—Physical Properties

Property	Foamsulate 50	Test
R-Value	3.7 at 1 inch	ASTM C518
Core Density	0.5 lb/ft ³	ASTM D1622
Open Cell Content	>97%	ASTM D6226
Sound Transmission Coefficient	42	ASTM E413
Water Vapor Transmission - Permeance	21 perms at 1 inch	ASTM E96
Air Leakage Rate	< 0.02 (L/s-m ²)	ASTM E283
Noise Reduction Coefficient	0.10	ASTM C423
Tensile Strength (Psi)	5.19	ASTM D1623
Dimensional Stability	<5%	ASTM D2126

- **ASTM D1622-2008** Standard Test Method for Apparent Density of Rigid Cellular Plastics
- **ASTM D1623-2009** Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics
- **ASTM D2126-2009** Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
- **ASTM D6226** Standard Test Method for Open Cell Content of Rigid Cellular Plastics
- **ASTM E84** Standard Test Method for Surface Burning Characteristics of Building Materials
- **ASTM E96/E96M-2010** Standard Test Methods for Water Vapor Transmission of Materials
- **ASTM E283-2004 (2012)** Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen
- **ASTM E413** Classification for Rating Sound Insulation
- **ASTM G21 - 96** Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

Florida Building Code

- **FL 17185.1** FL Building Code 2010 RULE 61G20-3
- **FL 17185.2** FL Building Code 2010 RULE 61G20-3

International Association of Plumbing and Mechanical Officials (IAPMO)

- **ES Report #351**

International Code Council (ICC)

- **ICC-ES AC 377 Appendix X** Acceptance criteria for spray-applied insulation
- **ICC-ESR 3081**

National Fire Protection Association (NFPA)

- **NFPA 259**
- **NFPA 285** Compliant For Use In Building Types: I, II, III, IV, V-B: Nonstructural Insulation Material
- **NFPA 286** Complies with the applicable requirements of ICC-ES AC377 Appendix X for use in attics and crawlspaces without a prescriptive ignition barrier

UL LLC

- **UL 1715** Standard for Fire Test of Interior Finish Material
- **UL 2818 - 2013** (certificate number 81884-410)
- **UL 2818 - 2013** (certificate number 81884-420)
- **FWFO.EWS0028**
- **FWFX.R38039**
- **FWFO.EWS0013**

Environmental Considerations

This product contributes to:

- ASHRAE 189.1
- 8.4.2.6 : Ceiling & Wall Systems
- 8.5.2 d : Insulation

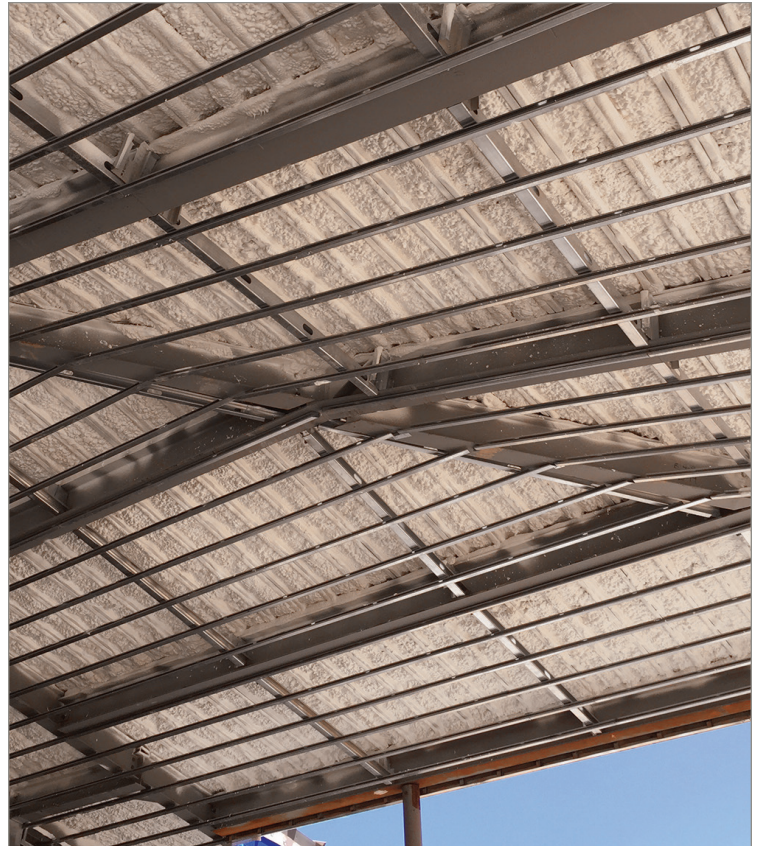


Table 2—Building Code Certifications /Fire Test Data

Evaluation Service Report	ICC	ESR 3081
Evaluation Service Report	ICC - FBC Supplement	Florida Building Code - Building Florida Building Code - Residential
Building Types	Approved	I, II, III, IV, V-B: Nonstructural Insulation material
Flame Spread	ASTM E84	Class I < 20
Smoke Development	ASTM E84	Class I < 400
ASTM E119	Pass	Non Load-Bearing - 1 Hour Rated - Wall Assembly
NFPA 259	Pass: Standard fire test method for evaluation of fire propagation characteristics of exterior non-load bearing wall assemblies containing combustible components.	
NFPA 285	Pass: Standard fire test method for evaluation of fire propagation characteristics of exterior non-load bearing wall assemblies containing combustible components.	
NFPA 286	Pass: Can be used without a 15-minute thermal barrier when covered with one of the approved intumescent coatings as shown on technical data sheet.	
NFPA 286 AC377 APPENDIX X	Pass: Complies with the applicable requirements of ICC-ES AC377 Appendix X for use in attics and crawlspaces when covered with one of the approved intumescent coatings as shown on technical data sheet.	
UL LISTING	FWFX.R38039	Exterior Wall System Components
UL LISTING	FWFO.EWS0013	Exterior Wall Systems

- Australian Green Star - Office Interiors
 - IEQ Credit 11: Furniture/Wall Systems
- CHPS
 - 2.2.6: Ceiling Systems
- Green Globes
 - 3.7.2.1.4 Volatile Organic Compound - Flooring & Other Interior Products
- Green Guide for Health Care 2.2
 - EP Credit 3.1: Ceiling Systems
 - EP Credit 3.2: Wall Systems
- International Green Construction Code
 - 806.6: Insulation
 - A108.5: TVOC Project Elective
- LEED 2008 for Homes
 - MR Credit 2.2: Low-Emissions Materials
- LEED 2009 for Commercial Interiors
 - ID Credit: Insulation
 - SS Credit 1: Option L: Insulation
- LEED 2009 for Core & Shell
 - ID Credit: Insulation
- LEED 2009 for Existing Buildings
 - ID Credit: Insulation
- LEED 2009 for New Construction
 - ID Credit: Insulation
- LEED 2009 for Retail: Commercial Interiors
 - IEQ Credit 4: Option F: Ceiling & Wall Systems
- LEED 2009 for Retail: New Construction
 - IEQ Credit 4: Option F: Ceiling & Wall Systems
- LEED 2009 for Schools
 - ID Credit: Insulation
 - IEQ Credit 4.6: Ceiling and Wall Systems
- LEED v4 - Building Design & Construction
 - EQ Credit 1: Enhanced Indoor Air Quality Strategies - Option 2 Additional Enhanced IAQ Strategies - D
 - EQ Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing
- LEED v4 - Homes
 - EQ Credit 2: Contaminant Control - Option 4 Air Testing
 - EQ Credit 7: Low-Emitting Materials
- LEED v4 - Interior Design & Construction
 - EQ Credit 1 - Enhanced Indoor Air Quality Strategies- Option 2D
 - EQ Credit 2: Low-Emitting Materials
 - EQ Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing
- LEED v4 - Operations & Maintenance
 - MR Credit 2: Purchasing - Facility Maintenance and Renovation - Option 1
- NAHB Green Building Standard (ICC 700)
 - 901.11: Insulation
 - 901.8: Wall Coverings



Product Limitations

Application guidelines: Polyurethane foam systems should be processed through commercially available spray equipment designed for that purpose by a qualified professional applicator. Consult the current application guidelines for Foamsulate 50 prior to installation. It is the responsibility of the professional applicator to thoroughly understand all equipment technical information and safe operating procedures that pertain to a spray polyurethane foam application.

Material handling: Due to the reactive nature of these components respiratory protection is mandatory. The vapors and liquid aerosols present during application and for a short period thereafter must be considered—and appropriate protective measures taken—to minimize potential risks from overexposure through inhalation, skin, or eye contact. These protective measures include: adequate ventilation, safety training for installers and other workers, use of appropriate personal protective equipment, and a medical surveillance program. It is imperative that the applicator read and become familiar with all available information on proper use and handling of spray polyurethane foam. Additional Information is available at spraypolyurethane.org, polyurethane.org or by contacting the Technical Services department of Accella™ Polyurethane Systems, LLC.

5. Installation

Follow manufacturer instructions to maintain warranty and consult with the current **Foamsulate™ 50 Application Guidelines**.

6. Availability and Cost

Please contact manufacturer for both availability and cost.

Accella™ Polyurethane Systems, LLC manufacturing facilities and an extensive warehouse network are located throughout the US and Canada.

7. Warranty

Foamsulate™ 50 has a limited lifetime warranty.

8. Maintenance

No maintenance necessary.

9. Technical Services

For additional assistance please contact the Technical Services dept. of Accella™ Polyurethane Systems, LLC. at (770) 607-0755.

10. Filing Systems

- ConstructConnect
- Additional product information is available from the manufacturer upon request ↪