



Dow Building Solutions



SELECTOR GUIDE

Residential products

THE RIGHT PRODUCTS.

Based on Building Science.

For nearly 60 years, The Dow Chemical Company has been the recognized leader in extruded polystyrene insulation. Since developing STYROFOAM™ extruded polystyrene insulation, Dow has continued to build on its foam expertise and technical strength to provide its customers with the right thermal envelope product for any application. Today, the extensive line of science-based solutions from Dow Building Solutions includes:

- STYROFOAM™ extruded polystyrene insulation
- Dow polyisocyanurate insulation
- STYROFOAM™ Spray Polyurethane Foam (SPF) Insulation
- WEATHERMATE™ housewraps
- WEATHERMATE™ Construction Tape
- WEATHERMATE™ Straight and Flexible Flashings
- WEATHERMATE™ Sill Pan
- FROTH-PAK™ FS Foam Insulation Kit and FROTH-PAK™ Foam Sealant Kit
- GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant
- GREAT STUFF PRO™ Window & Door Insulating Foam Sealant
- TILE BOND™ Roof Tile Adhesive

Rigid Foam Insulation

Dow's portfolio of rigid foam insulation products includes STYROFOAM™ extruded polystyrene and Dow polyisocyanurate insulation. Proprietary manufacturing processes produce boards with uniform, closed-cell structures and high, stable R-values. STYROFOAM insulation products offer the highest moisture resistance of any foam plastic insulation. The reusable boards feature high compressive strength but are also lightweight and easy to cut to size. Dow polyisocyanurate insulation products feature insulation cores of thermoset foam plastic laminated to a variety of facers that enhance strength, moisture resistance and rigidity.



Spray Polyurethane Foam Insulation

STYROFOAM™ Spray Polyurethane Foam (SPF) Insulation is a two-component, spray-applied insulation that expands during installation to create a seamless, monolithic barrier for protection against water and air. Offered in two formulations for both new and retrofit applications, STYROFOAM SPF Insulation, when properly installed, is both a moisture-resistant air barrier and insulation, and provides structural reinforcement.

STYROFOAM SPF Insulation provides structural enhancement only. Use in conjunction with approved structural components and framing members consistent with following local building code requirements.



Spray Polyurethane Foam Insulation, Sealant and Adhesive Products

Dow polyurethane products offer dependable service in a wide variety of applications. The one- and two-component systems are specially formulated for long service. And they are compatible with most construction materials.



Weather Barrier Solutions

Make sure your homes are covered against air and moisture that can contribute to energy loss, compromise comfort and cause damage with WEATHERMATE™ Weather Barrier Solutions. STYROFOAM™ extruded polystyrene and polyisocyanurate insulations, housewraps, flashings, sill pan and tape from Dow work together to create a complete exterior water management solution for comprehensive protection from the elements.



Dow Building Solutions

DETERMINE WHICH PRODUCTS ARE BEST FOR YOUR NEEDS.

roofs, ceilings and attics

PRODUCTS	roofs, ceilings and attics		
	Roofs	Ceilings – Cathedral/Vaulted	Attics
Extruded Polystyrene Insulation			
STYROFOAM™ DURAMATE™ Plus			■
STYROFOAM™ Residential Sheathing			■
STYROFOAM™ Square Edge		■	■
STYROFOAM™ Tongue and Groove		■	■
STYROFOAM™ WALLMATE™		■	
Polyisocyanurate Insulation			
HY-THERM™ NAIL-LINE™(1)	■	■	
STURDY-R™			■
Super TUFF-R™		■	■
THERMAX™ Sheathing		■	■
THERMAX™ White Finish			■
TUFF-R™		■	■
VALUE-R™(1)		■	■

exterior walls

PRODUCTS	exterior walls		
	Foam Over Studs	Foam Over Non-Insulating Sheathing	Stucco Applications/Select EIFS Assemblies
Extruded Polystyrene Insulation			
BLUECOR™	■	■	
STYROFOAM™ DURAMATE™ Plus	■	■	■
STYROFOAM™ Residential Sheathing	■	■	■
STYROFOAM™ STUCCOMATE™			■
STYROFOAM™ Tongue and Groove	■	■	■
Polyisocyanurate Insulation			
QUIK-R™			■
STURDY-R™	■	■	■
Super TUFF-R™	■	■	■
THERMAX™ Sheathing	■	■	■
TUFF-R™	■	■	■
VALUE-R™(1)	■	■	

(1) Only available west of the Rocky Mountains



masonry walls

PRODUCTS

Interior Concrete Block

Extruded Polystyrene Insulation	
STYROFOAM™ Square Edge	■
STYROFOAM™ Tongue and Groove	■
Polyisocyanurate Insulation	
Super TUFF-R™	■
THERMAX™ Sheathing	■
TUFF-R™	■

foundations/slabs/basements

PRODUCTS

Exterior Foundation Wall

Interior Basement Wall

Crawl Space

Extruded Polystyrene Insulation			
BLUECOR™	■		
STYROFOAM™ BLUEGUARD™	■		■
STYROFOAM™ PERIMATE™	■		
STYROFOAM™ Scoreboard	■	■	■
STYROFOAM™ Square Edge	■	■	■
STYROFOAM™ Tongue and Groove	■	■	■
STYROFOAM™ WALLMATE™		■	
Polyisocyanurate Insulation			
Super TUFF-R™		■	
THERMAX™ Sheathing		■	■
THERMAX™ White Finish		■	
TUFF-R™		■	

PRODUCTS

Under Slab

Over Slab/Subfloor

Extruded Polystyrene Insulation		
STYROFOAM™ BLUEGUARD™	■	
STYROFOAM™ Scoreboard	■	■
STYROFOAM™ Square Edge	■	■
STYROFOAM™ Tongue and Groove	■	■
STYROFOAM™ WALLMATE™		■
Polyisocyanurate Insulation		
VALUE-R™(1)		■

(1) Only available west of the Rocky Mountains

Enhance the overall performance of the building envelope with Dow's complete line of weather barrier solutions and spray polyurethane foam insulation, sealant and adhesive products

PRODUCTS	Roofs/Ceilings/ Attics	Walls	Foundations	Windows/Doors
Weather Barrier Solutions				
Dow Polyisocyanurate Insulation	■	■	■	
STYROFOAM™ Extruded Polystyrene Insulation	■	■	■	
STYROFOAM™ Sill Seal Foam Gasket			■	■
WEATHERMATE™ Housewrap		■		
WEATHERMATE™ Plus Housewrap		■		
WEATHERMATE™ Construction Tape		■		
WEATHERMATE™ Flexible Flashing				■
WEATHERMATE™ Sill Pan ⁽²⁾				■
WEATHERMATE™ Straight Flashing				■
Spray Foam Insulation				
FROTH-PAK™ FS Foam Insulation Kit	■	■	■	
STYROFOAM™ SPF Insulation	■	■		
Sealant and Adhesive Products				
FROTH-PAK™ Foam Sealant Kit	■	■	■	
GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant	■	■	■	
GREAT STUFF PRO™ Window & Door Insulating Foam Sealant				■
TILE BOND™ Roof Tile Adhesive	■			

(2) WEATHERMATE™ Sill Pan is designed for windows only.

BUILDING ENVELOPE SOLUTIONS

Product and Description

Extruded Polystyrene Insulation

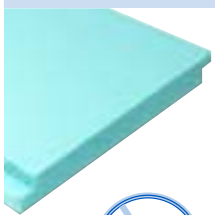
Building Code Compliance



BLUECOR™

An extruded polystyrene foam insulation board with plastic film on both sides. In residing applications, recommended as underlayment layer to provide solid, level surface under the new siding. Fanfolded 50-foot lengths make it easy to install and work with on the job site. The high-grade polystyrene formulation coupled with the heat bonding of capsheets (no glue used) permits 90° “folding” around corners without breakage or the need for reinforcement tape.

Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-699, BOCA-ES RR 21-02, ICBO-ES ER-2257. UL Classified, see Classification Certificate U589. Calif. Std. Reg. # CA T064. Florida Building Code FL 3835.



STYROFOAM™ BLUEGUARD™

Termite-resistant extruded polystyrene foam insulation specifically designed for insulating foundations in areas with termite activity. Contains deltamethrin insecticide, which protects the foam from termites and other wood-destroying insects. Insulation boards are available with square edges on all four sides or with shiplap edges on the long edges and square edges on board ends.



Complies with ASTM C578 Type IV. Meets IBC/IRC requirements for foam plastic insulation and acceptance requirements of ICC-ES EG-239 for termite-resistant foam plastic (ICC-ES NER-699 update in progress). UL Classified for Surface Burning Characteristics. Calif. Std. Reg. # CA T064.



STYROFOAM™ DURAMATE™ Plus

An extruded polystyrene foam board with proprietary extra-tough plastic film on both sides. Recommended for wall sheathing in residential applications. Very tough, durable performance reduces damage on the job site.

Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-699, BOCA-ES RR 21-02, ICBO-ES ER-2257. UL Classified, see Classification Certificate D369. Calif. Std. Reg. # CA T064. Florida Building Code FL 3835.



STYROFOAM™ PERIMATE™

An extruded polystyrene foam insulation board with patented dovetail grooves cut into one face of the board and shiplap edges on the long edges. When installed on the exterior of basement walls, it provides insulation, protects the waterproofing membrane and assists water drainage away from the foundation. Qualifies as Class A, Type 2 drainage product in Canada.

Complies with ASTM C578 Type IV. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-699, BOCA-ES RR 21-02, ICBO-ES ER-2257. UL Classified, see Classification Certificate D369. Calif. Std. Reg. # CA T064. Florida Building Code FL 3835.



STYROFOAM™ Residential Sheathing

An extruded polystyrene foam board with plastic film on both sides. Recommended for wall sheathing in residential applications. Plastic film reduces job site damage.

Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-699, BOCA-ES RR 21-02, ICBO-ES ER-2257. UL Classified, see Classification Certificate D369. Calif. Std. Reg. # CA T064. Florida Building Code FL 3835.



STYROFOAM™ Scoreboard

An extruded polystyrene foam insulation board with square edges on all four sides. Scored longitudinally on 16" and 24" centers, making it easy to snap into convenient widths.

Complies with ASTM C578 Type IV. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-699, BOCA-ES RR 21-02, ICBO-ES ER-2257. UL Classified, see Classification Certificate D369. Calif. Std. Reg. # CA T064. Florida Building Code FL 3835.

Technical Information

Nominal Board Thickness*	in	1/4
R-Value at 75°F Mean		1.0

Board Size: 4' x 50'

Nominal Board Thickness*	in	1	1-1/2	2
R-Value at 75°F Mean		5.0	7.5	10.0

Board Size: 4' x 8'

STYROFOAM™ BLUEGUARD™ insulation contains an insecticide. Gloves are required when handling. Long-sleeve shirt and pants are also recommended. See the Material Safety Data Sheet for more information.

STYROFOAM BLUEGUARD is a termite-resistant insulation, not a barrier system. Normal code-approved treatments are required to protect the home from termites. STYROFOAM BLUEGUARD insulation should be used in conjunction with a total insect management program available from a reputable pest management professional.

Nominal Board Thickness*	in	1/2
R-Value at 75°F Mean		3.0

Board Size: 4' x 8'; 4' x 9'

Nominal Board Thickness*	in	1-1/2	2-1/8
R-Value at 75°F Mean		7.0	10.0

Board Size: 2' x 8'

Nominal Board Thickness*	in	1/2	3/4	1
R-Value at 75°F Mean		3.0	4.0	5.0

Board Size: 4' x 8'; 4' x 9'

Nominal Board Thickness*	in	3/4	1	1-1/2	2	2-1/2	3
R-Value at 75°F Mean		3.8	5.0	7.5	10.0	12.5	15.0

Board Size: 4' x 8'

*Note: Not all products and sizes are available in all parts of the country. Other product sizes are available on a made-to-order basis. Please contact your Dow sales representative with questions.

Note: R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-value determined by ASTM C518 unless otherwise specified.

BUILDING ENVELOPE SOLUTIONS – continued

Product and Description

Extruded Polystyrene Insulation



STYROFOAM™ Square Edge

An extruded polystyrene foam insulation board with square edges on four sides. Offers superior water resistance, long-term thermal performance and high compressive strength.

Building Code Compliance

Complies with ASTM C578 Type IV. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-699, BOCA-ES RR 21-02. UL Classified, see Classification Certificate D369. Calif. Std. Reg. # CA T064. Florida Building Code FL 3835.



STYROFOAM™ STUCCOMATE™

An extruded polystyrene foam insulation board with grooved horizontal channels spaced 2" on center on the outside face of the boards and vertical channels spaced 8" on center on the inside or back face of the boards. Tongue and groove edge treatment. Designed for use as a non-absorbent sheathing base beneath one- or three-coat stucco systems applied on residential frame walls.

Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-699, BOCA-ES RR 21-02, ICBO-ES ER-2257. UL Classified, see Classification Certificate D369. Calif. Std. Reg. # CA T064. Florida Building Code FL 3835.



STYROFOAM™ Tongue and Groove

An extruded polystyrene foam insulation board with tongue and groove edges on all four sides of 2' x 8' boards, 1" thick or less and on the long edges on all other boards.

Complies with ASTM C578 Type IV. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-699, BOCA-ES RR 21-02, ICBO-ES ER-2257. UL Classified, see Classification Certificate D369. Calif. Std. Reg. # CA T064. Florida Building Code FL 3835.



STYROFOAM™ WALLMATE™

An extruded polystyrene foam board with rabbet edges on long edges. Designed as a quick, easy option for insulating and finishing the interior of basement walls. When boards are butted together, the rabbet edges form a slot between boards that accommodates a wood nailing strip. The wood nailing strip attaches the boards to the wall and provides a nail base for drywall.

Complies with ASTM C578 Type X. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-699, BOCA-ES RR 21-02, ICBO-ES ER-2257. UL Classified, see Classification Certificate D369. Calif. Std. Reg. # CA T064. Florida Building Code FL 3835.

Polyisocyanurate Insulation



HY-THERM™ NAIL-LINE™ Roof Insulation

Polyisocyanurate foam core, securely bonded to a top layer of durable 7/16" oriented strand board (OSB) and an organic/inorganic facer sheet on the other side. Incorporating all the features of other Dow polyisocyanurate roof insulations, this product features insulating value, nailability, high compressive strength and high resistance to traffic abuse.

Only available west of the Rocky Mountains

Building Code Compliance

Complies with ASTM C1289 Type V. Meets IBC/IRC requirements for foam plastic insulation. Calif. Std. Reg. # CA T383.



QUIK-R™

A rigid polyisocyanurate foam core insulation faced with special coated glass fiber facers. Designed for use in EIFS applications.

Complies with ASTM C1289, Type II, Class 3. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-554. Calif. Std. Reg. # CA T383. Florida Building Code FL 3839.

Technical Information

Nominal Board Thickness* in	3/4	1	1-1/2	2	2-1/2	3	4
R-Value at 75°F Mean	3.8	5.0	7.5	10.0	12.5	15.0	20.0

Board Size: 2' x 8'; 4' x 8'

Nominal Board Thickness* in	1
R-Value at 75°F Mean	5.0

Board Size: 2' x 8'

Nominal Board Thickness* in	3/4	1	1-1/2	2
R-Value at 75°F Mean	3.8	5.0	7.5	10.0

Board Size: 2' x 8'; 4' x 8'; 4' x 9'

Nominal Board Thickness* in	1-1/2	2
R-Value at 75°F Mean	7.5	10.0

Board Size: 2' x 8'

Technical Information

Nominal Board Thickness* in	1-1/2	2	2-1/2	3	4
R-Value ⁽¹⁾ at 75°F Mean	6.6	9.6	12.1	15.9	22.3

Board Size: 4' x 8'

(1) Expected results for foam pending confirmation using Long-Term Thermal Resistance (LTTR) – ASTM C1289 Annex method.

Nominal Board Thickness* in	5/8	3/4	1
R-Value at 75°F Mean	3.0	3.7	5.0

Board Size: 4' x 8'; 4' x 9'; 4' x 10'; 4' x 12'

*Note: Not all products and sizes are available in all parts of the country. Other product sizes are available on a made-to-order basis. Please contact your Dow sales representative with questions.

Note: R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-value determined by ASTM C518 unless otherwise specified.

BUILDING ENVELOPE SOLUTIONS – continued

Product and Description

Polyisocyanurate Insulation



STURDY-R™

A patented high-performance polyisocyanurate foam core with proprietary glass fiber facers. Recommended for wall sheathing in residential applications. Very tough, durable performance reduces damage on the job site.

Building Code Compliance

Complies with ASTM C1289 Type II, Class 3. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-540. Calif. Std. Reg. # CA T383. Florida Building Code FL 3839.



Super TUFF-R™

A patented high-performance polyisocyanurate foam core with patented three-ply poly/aluminum foil facers laminated to the core, resulting in unsurpassed durability. One facer is blue; the other facer is radiant barrier-quality reflective foil.

Complies with ASTM C1289 Type I, Class 1. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-616. Calif. Std. Reg. # CA T383. Florida Building Code FL 3839.



THERMAX™ Sheathing

A glass-fiber-reinforced polyisocyanurate foam core with solid aluminum foil facers on both sides. Can be installed exposed to the interior without a thermal barrier.

Complies with ASTM C1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-681. FM 4880 – see Factory Mutual Approval Guide. NYC MEA # 335-06-M, Miami-Dade NOA 04-1021.02, 02-0703.02 and 02-0703.03. Calif. Std. Reg. # CA T383. Florida Building Code FL 3839.



THERMAX™ White Finish

A glass-fiber-reinforced polyisocyanurate foam core faced with nominal 1.25 mil embossed white acrylic-coated aluminum on one side and 0.9 mil smooth aluminum on the other. Can be installed exposed to the interior without a thermal barrier.

Complies with ASTM C1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-681. FM 4880 – see Factory Mutual Approval Guide. Calif. Std. Reg. # CA T383. Florida Building Code FL 3839.



TUFF-R™

A patented high-performance polyisocyanurate foam core with radiant barrier-quality aluminum foil facers on both sides (one side reinforced).

Complies with ASTM C1289 Type I, Class 1. Meets IBC/IRC requirements for foam plastic insulation. See ICC-ES NER-616. Calif. Std. Reg. # CA T383. Florida Building Code FL 3839.



VALUE-R™

Polyisocyanurate foam insulation board with radiant barrier-quality reinforced aluminum foil facers on both sides.

Only available west of the Rocky Mountains

Complies with ASTM C1289 Type I, Class 1. Meets IBC/IRC requirements for foam plastic insulation. Calif. Std. Reg. # CA T383. FM specification tested.

Technical Information

Nominal Board Thickness* in	1/2	5/8	3/4	1
R-Value ⁽¹⁾ at 75°F Mean	2.5	3.0	3.7	5.0

Board Size: 4' x 8'; 4' x 9'

(1) R-3 STURDY-R 1/2" is available in the state of Georgia.

Nominal Board Thickness* in	1/2	5/8	3/4	1
R-Value at 75°F Mean	3.3	4.1	5.0	6.5

Board Size: 4' x 8'; 4' x 9'

Nominal Board Thickness* in	1/2	3/4	1	1-1/4	1-1/2	2
R-Value at 75°F Mean	3.3	5.0	6.5	8.1	9.8	13.0

Board Size: 4' x 8'; 4' x 9'; 4' x 10'

Nominal Board Thickness* in	1/2	3/4	1	1-1/4	1.55	1-3/4	2
R-Value at 75°F Mean	3.3	5.0	6.5	8.1	10.1	11.4	13.0

Board Size: 4' x 8'; 4' x 10'

Nominal Board Thickness* in	1/2	3/4	1
R-Value at 75°F Mean	3.3	5.0	6.5

Board Size: 4' x 8'; 4' x 9'

Nominal Board Thickness* in	2	2-1/2	3-1/2	4	4.5
R-Value at 75°F Mean	13.0	15.8	22.1	25.3	30.0

Board Size: 16" x 8'; 4' x 8'; 4' x 9'

*Note: Not all products and sizes are available in all parts of the country. Other product sizes are available on a made-to-order basis. Please contact your Dow sales representative with questions.

Note: R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-value determined by ASTM C518 unless otherwise specified.

BUILDING ENVELOPE SOLUTIONS – continued

Product and Description

Weather Barrier Solutions	Building Code Compliance
 <p>STYROFOAM™ Sill Seal Foam Gasket A flexible polyethylene foam gasketing strip used to reduce air infiltration between concrete foundation and sill plate or around windows.</p>	Not applicable.
 <p>WEATHERMATE™ Housewrap Woven, perforated, polyolefin-based housewrap that is both tough and tear-resistant. Offers an effective option for builders who prefer to use housewrap as a secondary weather-resistive barrier. It is translucent to allow clear view of studs and sheathing surface. Can remain uncovered for up to 60 days.</p>	Meets IBC/IRC requirements for a weather-resistive barrier. See ICC-ES NER-593 and ICBO-ES ER-5765.
 <p>WEATHERMATE™ Plus Housewrap A non-woven, non-perforated, polyolefin-based housewrap. Offers an effective option for builders who prefer to use housewrap as a secondary weather-resistive barrier. It is translucent to allow clear view of application surface. Superior tear resistance and outstanding durability compared to other leading non-woven, non-perforated wraps. Can remain uncovered for up to 120 days.</p>	Meets IBC/IRC requirements for a weather-resistive barrier. See ICC-ES NER-640 and ICBO-ES ER-5937.
 <p>WEATHERMATE™ Construction Tape Strong, pliable, highly adhesive tape seals joints and seams of WEATHERMATE™ and WEATHERMATE™ Plus housewraps and STYROFOAM™ insulated sheathings. Oriented polypropylene backing formulated with UV-treated film helps resist degradation from exposure to sunlight.</p>	Complies with ASTM D3330 and ASTM D882.
 <p>WEATHERMATE™ Flexible Flashing A crosslinked polymeric film facer with butyl rubber adhesive creates a water-resistant seal around curved windows and doors, and custom shapes. Compatible with WEATHERMATE™ Sill Pan.</p>	Meets requirements of ASTM E2112, ICBO AC148-01 and AAMA 711-05.
 <p>WEATHERMATE™ Sill Pan A flexible PVC sill pan manufactured for consistent thickness. Integrated corners and backdam offer superior protection against water seepage. Compatible with WEATHERMATE™ Flexible Flashing and WEATHERMATE™ Straight Flashing.</p>	Meets requirements of ASTM E2112.
 <p>WEATHERMATE™ Straight Flashing A crosslinked polymeric film facer with butyl rubber adhesive creates a water-resistant seal at window and door openings. Compatible with WEATHERMATE™ Sill Pan.</p>	Meets requirements of ASTM E2112, ICBO AC148-01 and AAMA 711-05.

Technical Information

Sold in Rolls*

3-1/2" x 50'	5-1/2" x 50'	7-1/2" x 50'
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Thickness: 1/4"

Sold in Rolls*

10' x 150'	9' x 100'	9' x 150'	9' x 195'	4'6" x 150'	3' x 100'
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Sold in Rolls*

10' x 100'	10' x 150'	9' x 100'	9' x 150'	3' x 150'	3' x 165'
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Sold in Rolls*

1-7/8" x 165'	2-7/8" x 165'
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Sold in Rolls*

6" x 75'	9" x 75'
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Thickness: 60 mil

Dimensions: 5" h x 3-3/4" d x 32" w; 3/8" h backdam (each piece)
Sold as two-piece assembly

Sold in Rolls*

4" x 100'	6" x 100'	9" x 100'
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Thickness: 20 mil

*Note: Not all products and sizes are available in all parts of the country. Other product sizes are available on a made-to-order basis. Please contact your Dow sales representative with questions.

BUILDING ENVELOPE SOLUTIONS – continued

Product and Description

Polyurethane Foam Insulation, Sealant and Adhesive Products

Building Code Compliance



STYROFOAM™ SPF Insulation

A two-component, 2.0 pcf density spray polyurethane foam system. Designed for fast, effective insulating air sealing for energy and moisture management around the building envelope. Two formulas for wide processing latitude.

Meets IBC/IRC requirements for foam plastic insulation. UL 723 Classified Class 1 at 4 inches.



FROTH-PAK™ FS Foam Insulation Kit and FROTH-PAK™ Foam Sealant Kit

Two-component, quick-cure spray polyurethane foams that fill studs, sill plates and large cavities for insulation and air sealing. The foam sealant kit is available in a selection of densities, properties and performance ranges to meet different application requirements. The full coverage spray foam insulation is available as a 1.75 pcf density.

UL Classified as a sealant. See CCMC 13074-R. FROTH-PAK™ FS Foam Insulation meets IBC/IRC requirements for foam plastic insulation at 2" thickness.



GREAT STUFF PRO™ Gaps & Cracks

A one-component, minimal-expanding, insulating, fire-blocking penetration polyurethane foam sealant ideal for smaller gaps and penetrations less than 2". Identifiable orange color.

ICC-ES Legacy NER-645. ASTM E331, ASTM E547, ASTM C1620 and complies with AAMA 812-04 and ABAA standards for air leakage per ASTM E283. UL Classified as a sealant. See CCMC 13074-R.



GREAT STUFF PRO™ Window & Door

A one-component, minimal-expanding, low pressure-build formulation, polyurethane foam sealant that won't bow window and door frames. Identifiable yellow color.

ICC-ES Legacy NER-645. Conforms to AAMA 812-04 pressure-build @ 0.08 psi, ABAA standards for air leakage per ASTM E283, ASTM E331, ASTM E547, ASTM C1620. UL Classified as a sealant. See CCMC 13074-R.



GREAT STUFF PRO™ Gun Cleaner

An innovative solution simplifies uncured foam cleanup. Attach foam dispensing gun for cleaning or use red spray nozzle.

Not applicable.



PRO Foam Dispensing Guns

Foam dispensing guns with convenient, re-startable features developed just for professionals. Advantages include no post-dispensing foam drip for less foam waste, better control and low post-dispensing foam expansion plus greater yield.

Not applicable.



TILE BOND™

A portable, one-component, minimal-expanding roof tile adhesive for attaching concrete and clay roof tiles in new and reroof applications.

UL Classified as an adhesive. Miami-Dade NOA 06-0417.02, Expiration Date 8/23/11. Florida Building Code FL 717-R1.

Technical Information

R-Value per inch ⁽¹⁾	6.5 (initial)
Size*	55 gal drums (one ISO, one polyol), sold by weight in lbs

A component (ISO) weighs 500 lbs
 B component (2 pcf polyol) weighs 450 lbs

(1) Aged R-value: 5.4 at 180 days, 73°F, 50% R.H. per FTC requirements.

Cure Time ⁽¹⁾	Tack-free <1 min.	FROTH-PAK™ 120 – for mid-size jobs. Theoretical yield ⁽²⁾ : 120 board feet. Components: 1 ISO (A) cylinder, 1 polyol (B) cylinder, 9' dispensing gun hose assembly, 6 cone spray nozzles, 4 fan spray nozzles.
Density, pcf	1.75, 2.25, 2.75	FROTH-PAK™ 180 – for larger jobs. Theoretical yield ⁽²⁾ : 180 board feet. Components: 1 ISO (A) cylinder, 1 polyol (B) cylinder, 9' dispensing gun hose assembly, 6 cone spray nozzles, 4 fan spray nozzles.
		FROTH-PAK™ 600 – maximum coverage to complete large jobs. Theoretical yield ⁽²⁾ : 600 board feet. Components: 1 ISO (A) cylinder, 1 polyol (B) cylinder, 15' dispensing gun hose assembly, 8 cone spray nozzles, 4 fan spray nozzles.

(1) Actual cure time will depend on temperature.

(2) Actual yield will depend on various factors of the application and the environment, including temperature, foam thickness, number of foam spray passes, the specific nozzle used, etc.

Cure Time ⁽¹⁾	Tack-free 6-7 mins.; trim in 30 mins.; full cure 1 hour
Size*	23 oz can, available in both gun and straw foam

(1) Actual cure time will depend on temperature, relative humidity and size of foam bead.

Cure Time ⁽¹⁾	Tack-free 6-9 mins.; trim in 1 hour; full cure 12 hours
Size*	20 oz can, available in both gun and straw foam

(1) Actual cure time will depend on temperature, relative humidity and size of foam bead.

Size*	12 oz can
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PRO 15 Gun – The best foam dispensing gun. Features a Teflon coated can adapter, needle and check valve, and a stainless steel barrel for longer life. Excellent flow control allows variable bead size. Smooth dispenser tip.

PRO 14 Gun – Features a Teflon coated can adapter and needle, stainless steel check valve and a replaceable barbed dispenser tip. Adjustable flow control makes it easy to vary bead size.

PRO 13 Gun – The most economical PRO Series foam dispensing gun. The lightweight gun features a barbed dispenser tip and adjustable flow control for variable bead size.

Application Temperature	60°F – 90°F
Size*	20 oz can, 23 lb canister

*Note: Not all products and sizes are available in all parts of the country. Other product sizes are available on a made-to-order basis. Please contact your Dow sales representative with questions.

Note: R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-value determined by ASTM C518 unless otherwise specified.

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NOTICE: Changes to the International Residential Code require the installation of a weather-resistive barrier (WRB) within most exterior wall assemblies in residential construction. The following Dow insulated sheathing products qualify as a WRB when installed according to the installation instructions developed for "installation of foam sheathing as a weather-resistive barrier": STYROFOAM™ DURAMATE™ Plus, STYROFOAM™ Residential Sheathing, STYROFOAM™ Tongue and Groove, STYROFOAM™ Square Edge, STYROFOAM™ Residing Board, DOW™ High Performance Underlayment, THERMAX™ Sheathing, TUFF-R™ and Super TUFF-R™ and therefore do not require the use of a building paper or a housewrap as a WRB. When a WRB is not needed, these Dow foam sheathings may be installed according to standard installation instructions for foam sheathing from Dow. Be sure products and installation instructions meet code requirements for your particular location. Note: WEATHERMATE™ and WEATHERMATE™ Plus housewraps have already qualified as weather-resistive alternatives to the prescribed felt (see Evaluation Reports NER-593 and NER-640 for approved alternative).

STYROFOAM™ Extruded Polystyrene Insulation and Dow Polyisocyanurate Insulation Other Than THERMAX™ Products

COMBUSTIBLE: Protect from high heat sources. Local building codes may require a protective or thermal barrier. For more information, consult MSDS, call Dow at 1-866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 1-989-636-4400.

THERMAX Products

COMBUSTIBLE: THERMAX products should be used only in strict accordance with product application instructions. THERMAX products, when used in a building containing combustible materials, may contribute to the spread of fire. For more information, consult MSDS and/or call Dow at 1-866-583-BLUE (2583). In an emergency, call 1-989-636-4400.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.

WEATHERMATE housewraps are a secondary defense against bulk water intrusion. The exterior finish is the primary water barrier.

NOTE: Dow polyurethane foam insulations contain isocyanate, hydrofluorocarbon blowing agent and polyol. Read the Material Safety Data Sheet carefully before use. Wear protective clothing, gloves, goggles and proper respiratory protection. Supplied air or an approved air-purifying respirator equipped with an organic vapor sorbent and a particle filter is required to maintain exposure levels below ACGIH, OSHA, WEEL or other applicable exposure limits. Provide adequate ventilation.

NOTE: Dow polyurethane foam sealants and adhesives contain isocyanates, hydrofluorocarbon or hydrocarbon blowing agents and prepolymers. Read the Material Safety Data Sheet carefully before use. Wear protective clothing, gloves and goggles and provide adequate ventilation and/or wear proper respiratory protection.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.

THE DOW CHEMICAL COMPANY

Dow Building Solutions • 200 Larkin • Midland, MI 48674 • www.insulateyourhome.com

FOR TECHNICAL INFORMATION: 1-866-583-BLUE (2583)

FOR SALES INFORMATION: 1-800-232-2436

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