

SELECTOR GUIDE  
**Residing products**





THE RIGHT SOURCE.

## The right solutions.

For more than 50 years, Dow Building Materials<sup>†</sup> has been the recognized leader in extruded polystyrene insulation. Since developing STYROFOAM<sup>\*</sup> extruded polystyrene insulation, we've continued to build on our foam expertise and technical strength to provide our customers with the right product for any building envelope application.

Today, Dow Building Materials offers an extensive line of science-based building envelope solutions, including:

- STYROFOAM extruded polystyrene insulation
- Dow polyisocyanurate insulation
- STYROFOAM WEATHERMATE<sup>\*</sup> housewraps

### Better Buildings. Better Business.

Dow Building Materials helps you improve the comfort and energy efficiency of your structures. And better buildings mean better business.

- Satisfied buyers
- Fewer callbacks
- Excellent return on investment
- Improved reputation



<sup>\*</sup>Trademark of The Dow Chemical Company

<sup>†</sup>A business unit of The Dow Chemical Company and its subsidiaries

BASED ON SCIENCE.

# Backed by Dow.

Behind our building envelope solutions are more than 50 years of experience and the reputation of The Dow Chemical Company.

- Dow developed extruded polystyrene insulation – we know more about foam than anyone else
- Dow uses a unique free-rise polyisocyanurate technology
- Quality and availability are ensured – we manage the entire process from raw materials to finished product
- Dow is committed to ongoing research and development
- Dow offers the most extensive marketing support in the industry

## Better Science. Better Service.

The Dow Chemical Company is a leading global supplier of chemical, plastic and agricultural products and services.

With a presence in 170 countries, The Dow Chemical Company is committed to improving the things that are essential to human progress.

### BUILDING RELATIONSHIPS

Dow Building Materials leverages the strengths of The Dow Chemical Company to build and improve relationships with customers and suppliers. A Fortune 50 company, The Dow Chemical Company is respected around the world as a brand leader.

Throughout Dow, we're using information technology to further enhance customer relationships and provide needs-based solutions. Among Dow's capabilities and initiatives:

- [www.dow.com](http://www.dow.com)
- [www.dowstyrofoam.com](http://www.dowstyrofoam.com)
- [www.dowinyourhome.com](http://www.dowinyourhome.com)
- Customer Information Group (CIG)
- Telesales

## Building Community.

### DOW AND HABITAT FOR HUMANITY

Recognizing that decent, affordable housing is essential to quality of life, Dow has built a strong partnership with Habitat for Humanity International.

We actively support Habitat with house sponsorships, product donations and volunteer build teams. Since the early 1980s, Dow has donated more than \$5 million in financial support and product donations to Habitat. Dow is the official supplier of rigid foam insulation and will donate an additional \$5 million of insulation for the next 25,000 Habitat homes built in North America through 2005. In addition, The Dow Chemical Company Foundation has pledged \$2 million to the organization for house sponsorships around the world.





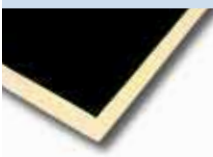

BUILDING BETTER.

# Residing solutions.

Better buildings begin with better materials ... and knowledge. Dow Building Materials offers a broad range of residing insulation solutions – the best products backed by in-depth technical expertise and support.

## residing

### EXISTING WALLS

Product and Description	Building Code Compliance
 <p><b>STYROFOAM Tongue and Groove</b> An extruded polystyrene foam insulation board with tongue and groove edges on all four sides of 2' x 8' boards and long edges on all other boards.</p>	<p>Complies with ASTM C 578 Type IV. Meets IBC/IRC requirements for foam plastic insulation. See ICBO-ES ER 2257, BOCA-ES RR 21-02, SBCCI PST &amp; ESI ER 9576D, Und. Lab. Inc.® Classified, see Classification Certificate D369.</p>
 <p><b>STYROFOAM Residing Board</b> An extruded polystyrene foam insulation board with a square edge. Recommended for use over old siding to provide a solid, level surface for new siding materials.</p>	<p>Meets IBC/IRC requirements for foam plastic insulation. Und. Lab. Inc.® Classified, see Classification Certificate D369, BOCA-ES RR 2102, ICBO-ES ER 2257, SBCCI PST &amp; ESI ER 9576D, Cal. Std. Reg.# CA-T064, HUD-UMB.</p>
 <p><b>Super TUFF-R</b> 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 painted black; the other facer is radiant barrier-quality reflective foil.</p>	<p>Complies with ASTM C 1289 Type I, Class 1. Meets IBC/IRC requirements for foam plastic insulation.</p>
 <p><b>TUFF-R</b> A patented high-performance polyisocyanurate foam core with radiant barrier-quality aluminum foil facers on both sides (one side reinforced).</p>	<p>Complies with ASTM C 1289 Type I, Class 1. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST &amp; ESI ER 9605C, BOCA-ES RR 95-22, ICBO-ES ER 5009.</p>



## Technical Information

Nominal Board Thickness**	in	3/4
	(mm)	(19.1)

R-Value at 75°F Mean	3.8
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Board Size: 2' x 8'; 4' x 8'; 4' x 9'

Nominal Board Thickness**	in	1/2
	(mm)	(12.7)

R-Value at 75°F Mean	2.8
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Board Size: 2' x 8'

Nominal Board Thickness**	in	1/2	5/8	3/4
	(mm)	(12.7)	(15.9)	(19.1)

R-Value at 75°F Mean	3.3	4.1	5.0
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Board Size: 4' x 8'; 4' x 9'

Nominal Board Thickness**	in	1/2	5/8	3/4
	(mm)	(12.7)	(15.9)	(19.1)

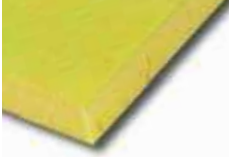

R-Value at 75°F Mean	3.3	4.1	5.0
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Board Size: 4' x 8'; 4' x 9'

**NOTE: R-value means resistance to heat flow. The higher the R-value, the greater the insulating power. R-value determined by ASTM C 518.**

**\*\*Not all product sizes are available in all regions. Please contact your local Dow sales representative for specific product availability in your area.**

**EXISTING WALLS** – continued

Product and Description	Building Code Compliance
 <p><b>STURDY-R*</b> A patented high-performance polyisocyanurate foam core with proprietary fiber glass facers. Recommended for wall sheathing in residential applications. Very tough, durable performance reduces damage on the job site.</p>	<p>Complies with ASTM C 1289 Type II, Class 2. Meets IBC/IRC requirements for foam plastic insulation. NES NER 540, ICBO-ES ER 5728.</p>
 <p><b>DOW High Performance Underlayment-LF</b> An extruded polystyrene foam insulation board that is fanfolded into 50-foot lengths. Special slit hinge allows board to lay flat on the wall, which provides a solid, level surface for new siding materials.</p>	<p>Meets IBC/IRC requirements for foam plastic insulation. Und. Lab. Inc.® Classified, see Classification Certificate U589, BOCA-ES RR 2102, ICBO-ES ER 2257, SBCCI PST &amp; ESI ER 9576D, Cal. Std. Reg.# CA-T064.</p>
 <p><b>DOW High Performance Underlayment</b> An extruded polystyrene foam insulation that is fanfolded into 50-foot lengths. Recommended as underlayment over old siding to provide a solid, level surface for new siding materials.</p>	<p>Meets IBC/IRC requirements for foam plastic insulation. Und. Lab. Inc.® Classified, see Classification Certificate U589, BOCA-ES RR 2102, ICBO-ES ER 2257, SBCCI PST &amp; ESI ER 9576D, Cal. Std. Reg.# CA-T064.</p>
 <p><b>STYROFOAM WEATHERMATE Plus</b> A non-woven, non-perforated, polyolefin-based housewrap. Offers an effective option for builders who prefer to use non-insulating sheathing along with a housewrap. It is translucent to allow clear view of application surface. More tear-resistant than other non-woven, non-perforated wraps. Can remain uncovered for up to 120 days.</p>	<p>See ICBO-ES ER 5937, BOCA-ES RR 21-68, SBCCI PST &amp; ESI ER 2128.</p>
 <p><b>STYROFOAM WEATHERMATE</b> Woven, perforated, polyolefin-based housewrap that is both tough and tear-resistant. Offers an effective option for builders who prefer to use non-insulating sheathing along with housewrap. It is translucent to allow clear view of studs and sheathing surface. Can remain uncovered for up to 60 days.</p>	<p>See ICBO-ES ER 5765, NES NER 593.</p>

\*Trademark of The Dow Chemical Company

## Technical Information

Nominal Board Thickness**	in (mm)	1/2 (12.7)	3/4 (19.1)
R-Value at 75°F Mean		2.8 <sup>1</sup>	3.7

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

<sup>1</sup>R-3 STURDY-R 1/2" available in the state of Georgia.

Nominal Board Thickness**	in (mm)	1/4 (6.4)	3/8 (9.5)
R-Value at 75°F Mean		1.0	1.5

Board Size: 4' x 50'

DOW High Performance Underlayment-LF is heat-bonded between facers and then pin-perforated for vapor permeance.

**Plastic/Plastic (P/P).** Bonds the insulation between strong plastic film facers. Available in 1/4" and 3/8" thickness.

**Plastic/Reflective Plastic (P/R).** Bonds the insulation between a strong plastic film facer and a metallicized, reflective plastic film facer. Available in 1/4" and 3/8" thickness.

Nominal Board Thickness**	in (mm)	1/4 (6.4)	3/8 (9.5)
R-Value at 75°F Mean		1.0	1.5

Board Size: 4' x 50'

DOW High Performance Underlayment is heat-bonded between various facers and then pin-perforated for vapor permeance.

**Plastic/Plastic (P/P).** Bonds the insulation between strong plastic film facers. Available in 1/4" and 3/8" thickness.

**Plastic/Reflective Plastic (P/R).** Bonds the insulation between a strong plastic film facer and a metallicized, reflective plastic film facer. Available in 1/4" and 3/8" thickness.

**Kraft/Foil (K/F).** Bonds the insulation between a kraft paper facer and a foil facer. Available in 1/4" thickness.

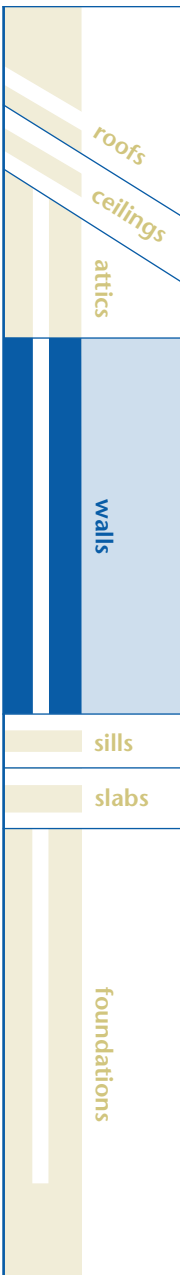
**Kraft/Kraft (K/K).** Bonds the insulation between kraft paper facers. Available in 1/4" thickness.

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

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

**NOTE: R-value means resistance to heat flow. The higher the R-value, the greater the insulating power. R-value determined by ASTM C 518.**

**\*\*Not all product sizes are available in all regions. Please contact your local Dow sales representative for specific product availability in your area.**



**NOTICE:** No freedom from any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. Dow assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

**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.

**The Dow Chemical Company**

Building Materials

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**For Technical Information: 1-866-583-BLUE (2583)**

**For Sales Information: 1-800-232-2436**

**[www.dowstyrofoam.com](http://www.dowstyrofoam.com)**



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