



SELECTOR GUIDE

# Commercial products



THE RIGHT SOURCE.

## The right solutions.

For more than 50 years, Dow Building Materials<sup>1</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, including top-rated THERMAX<sup>®</sup> and TUFF-R<sup>®</sup>
- STYROFOAM WEATHERMATE<sup>®</sup> housewraps
- STYROFOAM concrete insulation systems

### 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>1</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.dowbuildingmaterials.com](http://www.dowbuildingmaterials.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.



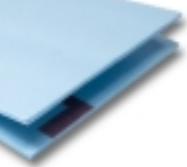





BUILDING BETTER.

# Building envelope solutions.

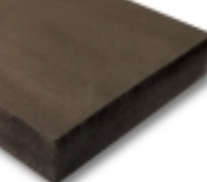




Better buildings begin with better materials ... and knowledge. Dow Building Materials offers a broad range of building envelope solutions – the best products backed by in-depth technical expertise and support.

## BUILDING ENVELOPE INSULATION PRODUCTS

Product and Description	Building Code Compliance	Technical Information										
 <p><b>DOW Protection Board III</b> An extruded polystyrene foam insulation board with plastic film on one side. Fanfolded 50-foot lengths make it easy to install and work with on the jobsite. Recommended for waterproofing protection on the exterior of perimeter concrete and masonry walls.</p>	<p>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 U589.</p>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1/4 (6.4)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>1.0</td> </tr> </table> <p>Board Size: 4' x 50'</p>	Nominal Board Thickness**	in (mm)	1/4 (6.4)	R-Value at 75°F Mean		1.0				
Nominal Board Thickness**	in (mm)	1/4 (6.4)										
R-Value at 75°F Mean		1.0										
 <p><b>STYROFOAM CAVITYMATE</b> An extruded polystyrene foam insulation board with square edges on all four sides. Special 16" width makes it easy to fit between brick ties in cavity wall applications.</p>	<p>Complies with ASTM C 578 Type X. 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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1 (25.4)</td> <td>1 1/2 (38.1)</td> <td>2 (50.8)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>5.0</td> <td>7.5</td> <td>10.0</td> </tr> </table> <p>Board Size: 16" x 8'</p>	Nominal Board Thickness**	in (mm)	1 (25.4)	1 1/2 (38.1)	2 (50.8)	R-Value at 75°F Mean		5.0	7.5	10.0
Nominal Board Thickness**	in (mm)	1 (25.4)	1 1/2 (38.1)	2 (50.8)								
R-Value at 75°F Mean		5.0	7.5	10.0								
 <p><b>STYROFOAM CAVITYMATE Plus</b> An extruded polystyrene foam insulation board with square edges on all four sides. Special 16" width makes it easy to fit between brick ties in cavity wall applications.</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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1 1/2 (38.1)</td> <td>2 (50.8)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>7.5</td> <td>10.0</td> </tr> </table> <p>Board Size: 16" x 8'</p>	Nominal Board Thickness**	in (mm)	1 1/2 (38.1)	2 (50.8)	R-Value at 75°F Mean		7.5	10.0		
Nominal Board Thickness**	in (mm)	1 1/2 (38.1)	2 (50.8)									
R-Value at 75°F Mean		7.5	10.0									
 <p><b>STYROFOAM CAVITYMATE SC</b> An extruded polystyrene foam insulation board with shiplap edges on long edges. Controls condensation, corrects steel stud thermal short, improves performance of insulating batting.</p>	<p>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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1 (25.4)</td> <td>1 1/2 (38.1)</td> <td>2 (50.8)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>5.0</td> <td>7.5</td> <td>10.0</td> </tr> </table> <p>Board Size: 4' x 8'</p> <p>NOTE: R-value means resistance to heat flow. The higher the R-value, the greater the insulating power. **Not all product sizes are available in all regions. Please contact your local Dow sales representative for specific product availability in your area.</p>	Nominal Board Thickness**	in (mm)	1 (25.4)	1 1/2 (38.1)	2 (50.8)	R-Value at 75°F Mean		5.0	7.5	10.0
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the products

**BUILDING ENVELOPE INSULATION PRODUCTS**—continued


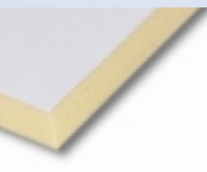



Product and Description	Building Code Compliance	Technical Information																		
 <p><b>STYROFOAM CAVITYMATE Ultra</b> An extruded polystyrene foam insulation board with square edges on all four sides. Special 16" width makes it easy to fit between brick ties in cavity wall applications.</p>	<p>Complies with ASTM C 578 Type IV. Patented carbon black technology provides high R-value per inch of thickness. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST &amp; ESI ER 9576D, Und. Lab. Inc.® Classified, see Classification Certificate D369.</p>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1 3/4 (44.5)</td> <td>2 1/8 (54)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>8.75</td> <td>10.6</td> </tr> </table> <p>Board Size: 16" x 8'</p>	Nominal Board Thickness**	in (mm)	1 3/4 (44.5)	2 1/8 (54)	R-Value at 75°F Mean		8.75	10.6										
Nominal Board Thickness**	in (mm)	1 3/4 (44.5)	2 1/8 (54)																	
R-Value at 75°F Mean		8.75	10.6																	
 <p><b>STYROFOAM Highload 40, 60 and 100</b> An extruded polystyrene foam insulation board with high compressive strength developed specifically for in-ground applications and freezer floors.</p>	<p>Complies with ASTM C 578 Types V, VI and VII. 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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>2 (50.8)</td> <td>3 (76.2)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>10.0</td> <td>15.0</td> </tr> </table> <p>Board Size: 2' x 8'</p>	Nominal Board Thickness**	in (mm)	2 (50.8)	3 (76.2)	R-Value at 75°F Mean		10.0	15.0										
Nominal Board Thickness**	in (mm)	2 (50.8)	3 (76.2)																	
R-Value at 75°F Mean		10.0	15.0																	
 <p><b>STYROFOAM PERIMATE</b> 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.</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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1 1/2 (38.1)</td> <td>2 1/8 (54.0)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>7.0</td> <td>10.0</td> </tr> </table> <p>Board Size: 2' x 8'</p>	Nominal Board Thickness**	in (mm)	1 1/2 (38.1)	2 1/8 (54.0)	R-Value at 75°F Mean		7.0	10.0										
Nominal Board Thickness**	in (mm)	1 1/2 (38.1)	2 1/8 (54.0)																	
R-Value at 75°F Mean		7.0	10.0																	
 <p><b>STYROFOAM Scoreboard</b> An extruded polystyrene foam insulation board with square edges on all four sides. Scored longitudinally on 16" (406 mm) and 24" (610 mm) centers, making it easy to snap into convenient widths.</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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>3/4 (19.1)</td> <td>1 (25.4)</td> <td>1 1/2 (38.1)</td> <td>2 (50.8)</td> <td>2 1/2 (63.5)</td> <td>3 (76.2)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>3.8</td> <td>5.0</td> <td>7.5</td> <td>10.0</td> <td>12.5</td> <td>15.0</td> </tr> </table> <p>Board Size: 4' x 8'</p>	Nominal Board Thickness**	in (mm)	3/4 (19.1)	1 (25.4)	1 1/2 (38.1)	2 (50.8)	2 1/2 (63.5)	3 (76.2)	R-Value at 75°F Mean		3.8	5.0	7.5	10.0	12.5	15.0		
Nominal Board Thickness**	in (mm)	3/4 (19.1)	1 (25.4)	1 1/2 (38.1)	2 (50.8)	2 1/2 (63.5)	3 (76.2)													
R-Value at 75°F Mean		3.8	5.0	7.5	10.0	12.5	15.0													
 <p><b>STYROFOAM Square Edge</b> An extruded polystyrene foam insulation board with square edges on four sides. Offers superior water resistance, long-term thermal performance and high compressive strength.</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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>3/4 (19.1)</td> <td>1 (25.4)</td> <td>1 1/2 (38.1)</td> <td>2 (50.8)</td> <td>2 1/2 (63.5)</td> <td>3 (76.2)</td> <td>4 (101.6)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>3.8</td> <td>5.0</td> <td>7.5</td> <td>10.0</td> <td>12.5</td> <td>15.0</td> <td>20.0</td> </tr> </table> <p>Board Size: 2' x 8'; 4' x 8'</p>	Nominal Board Thickness**	in (mm)	3/4 (19.1)	1 (25.4)	1 1/2 (38.1)	2 (50.8)	2 1/2 (63.5)	3 (76.2)	4 (101.6)	R-Value at 75°F Mean		3.8	5.0	7.5	10.0	12.5	15.0	20.0
Nominal Board Thickness**	in (mm)	3/4 (19.1)	1 (25.4)	1 1/2 (38.1)	2 (50.8)	2 1/2 (63.5)	3 (76.2)	4 (101.6)												
R-Value at 75°F Mean		3.8	5.0	7.5	10.0	12.5	15.0	20.0												

NOTE: R-value means resistance to heat flow. The higher the R-value, the greater the insulating power.  
\*\*Not all product sizes are available in all regions. Please contact your local Dow sales representative for specific product availability in your area.

**BUILDING ENVELOPE INSULATION PRODUCTS**—continued

Product and Description	Building Code Compliance	Technical Information																
 <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, 1" thick or less 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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>3/4 (19.1)</td> <td>1 (25.4)</td> <td>1 1/2 (38.1)</td> <td>2 (50.8)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>3.8</td> <td>5.0</td> <td>7.5</td> <td>10.0</td> </tr> </table> <p>Board Size: 2' x 8'; 4' x 8'</p>	Nominal Board Thickness**	in (mm)	3/4 (19.1)	1 (25.4)	1 1/2 (38.1)	2 (50.8)	R-Value at 75°F Mean		3.8	5.0	7.5	10.0				
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R-Value at 75°F Mean		3.8	5.0	7.5	10.0													
 <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>	<p>Sold in Rolls**</p> <table border="1"> <tr> <td>10' x 100'</td> <td>9' x 100'</td> <td>9' x 150'</td> <td>9' x 195'</td> <td>4'6" x 100'</td> <td>3' x 100'</td> </tr> </table>	10' x 100'	9' x 100'	9' x 150'	9' x 195'	4'6" x 100'	3' x 100'										
10' x 100'	9' x 100'	9' x 150'	9' x 195'	4'6" x 100'	3' x 100'													
 <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>Sold in Rolls**</p> <table border="1"> <tr> <td>10' x 100'</td> <td>10' x 150'</td> <td>9' x 100'</td> <td>9' x 150'</td> <td>9' x 195'</td> <td>3' x 100'</td> </tr> </table>	10' x 100'	10' x 150'	9' x 100'	9' x 150'	9' x 195'	3' x 100'										
10' x 100'	10' x 150'	9' x 100'	9' x 150'	9' x 195'	3' x 100'													
 <p><b>STYROFOAM Z-MATE</b> An extruded polystyrene foam insulation board with square edges on all four sides. Its unique width fits between 24" o.c. Z furring which saves installation time by eliminating cutting or snapping of insulation boards.</p>	<p>Complies with ASTM C 578 Type X. 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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1 1/2 (38.1)</td> <td>2 (50.8)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>7.5</td> <td>10.0</td> </tr> </table> <p>Board Size: 23 7/8" x 8'</p>	Nominal Board Thickness**	in (mm)	1 1/2 (38.1)	2 (50.8)	R-Value at 75°F Mean		7.5	10.0								
Nominal Board Thickness**	in (mm)	1 1/2 (38.1)	2 (50.8)															
R-Value at 75°F Mean		7.5	10.0															
 <p><b>Super TUFF-R Commercial</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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>5/8 (15.9)</td> <td>1 (25.4)</td> <td>1 3/8 (34.9)</td> <td>1 1/2 (38.1)</td> <td>1 3/4 (44.5)</td> <td>2 (50.8)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>5.0</td> <td>7.2</td> <td>10.0</td> <td>10.8</td> <td>12.0</td> <td>14.4</td> </tr> </table> <p>Board Size: 16" x 8'; 4' x 8'; 4' x 9'</p> <p>NOTE: R-value means resistance to heat flow. The higher the R-value, the greater the insulating power. **Not all product sizes are available in all regions. Please contact your local Dow sales representative for specific product availability in your area.</p>	Nominal Board Thickness**	in (mm)	5/8 (15.9)	1 (25.4)	1 3/8 (34.9)	1 1/2 (38.1)	1 3/4 (44.5)	2 (50.8)	R-Value at 75°F Mean		5.0	7.2	10.0	10.8	12.0	14.4
Nominal Board Thickness**	in (mm)	5/8 (15.9)	1 (25.4)	1 3/8 (34.9)	1 1/2 (38.1)	1 3/4 (44.5)	2 (50.8)											
R-Value at 75°F Mean		5.0	7.2	10.0	10.8	12.0	14.4											

**BUILDING ENVELOPE INSULATION PRODUCTS** – continued

Product and Description	Building Code Compliance	Technical Information																																										
 <p><b>THERMAX Heavy Duty Plus</b> A glass-fiber-reinforced polyisocyanurate foam core faced with nominal 16.5 mil embossed white acrylic-coated aluminum sheet laminated to plain 1 mil aluminum on one side and 1 mil plain aluminum on the other side. Can be installed exposed to the interior without a thermal barrier.</p>	<p>Complies with ASTM C 1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST &amp; ESI ER 9574C, BOCA-ES RR 98-25, ICBO-ES ER 3223. FM 4880 – see Factory Mutual Approval Guide.</p>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>1/2</td> <td>3/4</td> <td>1</td> <td>1 1/4</td> <td>1 1/2</td> <td>1 3/4</td> <td>2</td> <td>2 1/4</td> <td>2 1/2</td> <td>2 3/4</td> <td>3</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(12.7)</td> <td>(19.1)</td> <td>(25.4)</td> <td>(31.8)</td> <td>(38.1)</td> <td>(44.5)</td> <td>(50.8)</td> <td>(57.2)</td> <td>(63.5)</td> <td>(69.9)</td> <td>(76.2)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>3.6</td> <td>5.4</td> <td>7.2</td> <td>9.0</td> <td>10.8</td> <td>12.6</td> <td>14.4</td> <td>16.2</td> <td>18.0</td> <td>19.8</td> <td>21.6</td> </tr> </table> <p>Board Size: 4' x 8'; 4' x 10'</p>	Nominal Board Thickness**	in	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3		(mm)	(12.7)	(19.1)	(25.4)	(31.8)	(38.1)	(44.5)	(50.8)	(57.2)	(63.5)	(69.9)	(76.2)	R-Value at 75°F Mean		3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.8	21.6			
Nominal Board Thickness**	in	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3																																
	(mm)	(12.7)	(19.1)	(25.4)	(31.8)	(38.1)	(44.5)	(50.8)	(57.2)	(63.5)	(69.9)	(76.2)																																
R-Value at 75°F Mean		3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.8	21.6																																
 <p><b>THERMAX Heavy Duty</b> A glass-fiber-reinforced polyisocyanurate foam core faced with nominal 4 mil embossed white acrylic-coated aluminum on one side and 1.25 mil embossed aluminum on the other side. Can be installed exposed to the interior without a thermal barrier.</p>	<p>Complies with ASTM C 1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST &amp; ESI ER 9574C, BOCA-ES RR 98-25, ICBO-ES ER 3223. FM 4880 – see Factory Mutual Approval Guide.</p>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>1/2</td> <td>3/4</td> <td>1</td> <td>1 1/4</td> <td>1 1/2</td> <td>1 3/4</td> <td>2</td> <td>2 1/4</td> <td>2 1/2</td> <td>2 3/4</td> <td>3</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(12.7)</td> <td>(19.1)</td> <td>(25.4)</td> <td>(31.8)</td> <td>(38.1)</td> <td>(44.5)</td> <td>(50.8)</td> <td>(57.2)</td> <td>(63.5)</td> <td>(69.9)</td> <td>(76.2)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>3.6</td> <td>5.4</td> <td>7.2</td> <td>9.0</td> <td>10.8</td> <td>12.6</td> <td>14.4</td> <td>16.2</td> <td>18.0</td> <td>19.8</td> <td>21.6</td> </tr> </table> <p>Board Size: 4' x 8'; 4' x 10'</p>	Nominal Board Thickness**	in	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3		(mm)	(12.7)	(19.1)	(25.4)	(31.8)	(38.1)	(44.5)	(50.8)	(57.2)	(63.5)	(69.9)	(76.2)	R-Value at 75°F Mean		3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.8	21.6			
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 <p><b>THERMAX Light Duty</b> A glass-fiber-reinforced polyisocyanurate foam core faced with nominal 1.25 mil embossed white acrylic-coated aluminum on one side and 1.25 mil embossed aluminum on the other side. Can be installed exposed to the interior without a thermal barrier.</p>	<p>Complies with ASTM C 1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST &amp; ESI ER 9574C, BOCA-ES RR 98-25, ICBO-ES ER 3223. FM 4880 – see Factory Mutual Approval Guide.</p>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>1/2</td> <td>3/4</td> <td>1</td> <td>1 1/4</td> <td>1 1/2</td> <td>1 3/4</td> <td>2</td> <td>2 1/4</td> <td>2 1/2</td> <td>2 3/4</td> <td>3</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(12.7)</td> <td>(19.1)</td> <td>(25.4)</td> <td>(31.8)</td> <td>(38.1)</td> <td>(44.5)</td> <td>(50.8)</td> <td>(57.2)</td> <td>(63.5)</td> <td>(69.9)</td> <td>(76.2)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>3.6</td> <td>5.4</td> <td>7.2</td> <td>9.0</td> <td>10.8</td> <td>12.6</td> <td>14.4</td> <td>16.2</td> <td>18.0</td> <td>19.8</td> <td>21.6</td> </tr> </table> <p>Board Size: 4' x 8'; 4' x 10'</p>	Nominal Board Thickness**	in	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3		(mm)	(12.7)	(19.1)	(25.4)	(31.8)	(38.1)	(44.5)	(50.8)	(57.2)	(63.5)	(69.9)	(76.2)	R-Value at 75°F Mean		3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.8	21.6			
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 <p><b>THERMAX Sheathing</b> 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.</p>	<p>Complies with ASTM C 1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST &amp; ESI ER 9574C, BOCA-ES RR 98-25, ICBO-ES ER 3223. FM 4880 – see Factory Mutual Approval Guide.</p>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>1/2</td> <td>3/4</td> <td>1</td> <td>1 1/4</td> <td>1 1/2</td> <td>2</td> <td>2 1/2</td> <td>2 3/4</td> <td>3</td> <td>3 1/2</td> <td>4</td> <td>4 1/4</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(12.7)</td> <td>(19.1)</td> <td>(25.4)</td> <td>(31.8)</td> <td>(38.1)</td> <td>(50.8)</td> <td>(63.5)</td> <td>(69.9)</td> <td>(76.2)</td> <td>(88.9)</td> <td>(101.6)</td> <td>(108)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>3.6</td> <td>5.4</td> <td>7.2</td> <td>9.0</td> <td>10.8</td> <td>14.4</td> <td>18.0</td> <td>19.8</td> <td>21.6</td> <td>25.2</td> <td>28.8</td> <td>30.0</td> </tr> </table> <p>Board Size: 16" x 8'; 4' x 8'; 4' x 10'</p>	Nominal Board Thickness**	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	2 3/4	3	3 1/2	4	4 1/4		(mm)	(12.7)	(19.1)	(25.4)	(31.8)	(38.1)	(50.8)	(63.5)	(69.9)	(76.2)	(88.9)	(101.6)	(108)	R-Value at 75°F Mean		3.6	5.4	7.2	9.0	10.8	14.4	18.0	19.8	21.6	25.2	28.8	30.0
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 <p><b>TUFF-R Commercial</b> A patented high-performance polyisocyanurate foam core insulation with reflective/radiant barrier-quality aluminum foil facers on both sides.</p>	<p>Complies with ASTM C 1289 Type I, Class 2. 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>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>5/8</td> <td>3/4</td> <td>1</td> <td>1 1/4</td> <td>1 1/2</td> <td>1 7/8</td> <td>2</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(15.9)</td> <td>(19.1)</td> <td>(25.4)</td> <td>(31.8)</td> <td>(38.1)</td> <td>(47.6)</td> <td>(50.8)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>5.0</td> <td>5.6</td> <td>8.0</td> <td>10.0</td> <td>12.0</td> <td>14.0</td> <td>16.0</td> </tr> </table> <p>Board Size: 16" x 8'; 4' x 8'; 4' x 9'</p> <p>NOTE: R-value means resistance to heat flow. The higher the R-value, the greater the insulating power. **Not all product sizes are available in all regions. Please contact your local Dow sales representative for specific product availability in your area.</p>	Nominal Board Thickness**	in	5/8	3/4	1	1 1/4	1 1/2	1 7/8	2		(mm)	(15.9)	(19.1)	(25.4)	(31.8)	(38.1)	(47.6)	(50.8)	R-Value at 75°F Mean		5.0	5.6	8.0	10.0	12.0	14.0	16.0															
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## BUILDING ENVELOPE INSULATION PRODUCTS – continued

### Product and Description



#### VALUE-R

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

### Building Code Compliance

Complies with ASTM C 1289 Type I, Class 1. Meets IBC/IRC requirements for foam plastic insulation.

### Technical Information

Nominal Board Thickness**	in	2	2 1/2	3	4
	(mm)	(50.8)	(63.5)	(76.2)	(101.6)
R-Value at 75°F Mean		14.4	18.0	21.6	30.0

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

## MECHANICAL INSULATION PRODUCTS



#### TRYMER 2000 Pipe Insulation

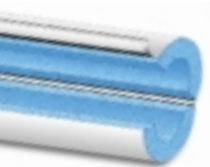
A closed-cell, water-resistant, high-performance, rigid, polyisocyanurate insulation for use as pipe and duct insulation. The superior properties of TRYMER 2000 pipe insulation make it an ideal choice for all pipe insulation below 300°F and, most notably, in chilled water applications.

Complies with ASTM C 591, Type IV. Meets IMC requirements for pipe insulation in all areas of a building, including inside air plenums. Classified by OmegaPoint Laboratories to meet 25/50 flame/smoke rating. See Classification Certificate 16096-1.

Thermal Conductivity (k-Factor) at 75°F and 180 days Aging <sup>1,2</sup>	0.19
Compressive Strength	psi 24

<sup>1</sup>k-Factor expressed in Btu-in/hr-ft<sup>2</sup>-°F

<sup>2</sup>TRYMER 2000 is closed-cell to better resist water and water vapor. This helps to maintain thermal efficiency and minimize mold/fungus growth



#### Saran Vapor Retarder Film and Tape

A strong, tough and easy-to-apply vapor retarder system that exceeds all industry requirements for water vapor permeance. This system consists of Saran Film on straight pipe and Saran Tape on elbows, valves and fittings to help ensure long lifespan and a tight, water-resistant seal.

All grades of Saran Film and Tape meet an ASTM E 84 flame/smoke performance of 25/50 or lower. This allows the use of these products as an exposed vapor retarder on pipe insulation in all areas of a commercial building including within an air plenum.

Water Vapor Permeance <sup>3</sup>	
Saran 540 Film <sup>4</sup>	0.02
Saran 560 Film <sup>4</sup>	0.01

<sup>3</sup>Permeance expressed in perms

<sup>4</sup>Saran Vapor Retarder Film and Tape provide no nutrients to contribute to the growth of mold/fungus

NOTE: R-value means resistance to heat flow. The higher the R-value, the greater the insulating power.

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

the products

**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.

**STYROFOAM Extruded Polystyrene Insulation, TRYMER Polyisocyanurate Insulation and Dow Polyisocyanurate Insulation Other Than THERMAX Products**  
NOTICE: COMBUSTIBLE. Protect from high heat sources. For more information, consult MSDS and/or call Dow (1-800-441-4369). In an emergency, call 1-989-636-4400. Local building codes may require a protective or thermal barrier. Contact your local building inspector for more information.

**THERMAX Products**

WARNING: THERMAX insulation/finish boards do not constitute a working walkable surface or qualify as a fall protection product.

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 (1-800-441-4369). In an emergency, call 1-989-636-4400.

The Dow Chemical Company  
Building Materials  
200 Larkin • Midland, Michigan 48674  
For Technical Information: 1-800-441-4DOW (4369)  
For Sales Information: 1-800-232-2436  
[www.dowbuildingmaterials.com](http://www.dowbuildingmaterials.com)



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