

SELECTOR GUIDE

# Metal building 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. Metal building solutions.

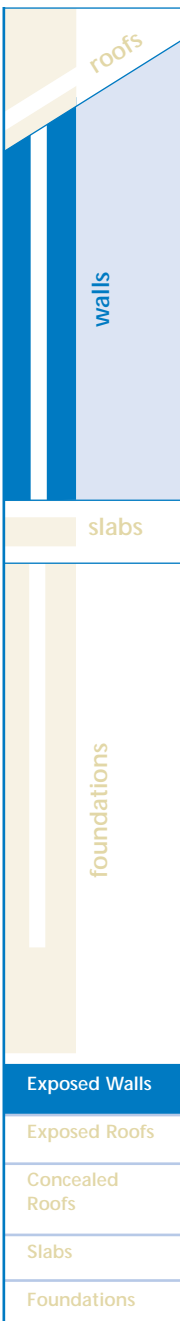
Better metal buildings begin with better materials ... and knowledge. Dow Building Materials offers a broad range of metal building insulation solutions – the best products backed by in-depth technical expertise and support.

## metal buildings

### EXPOSED WALLS





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>	Complies with ASTM C 1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST & ESI ER 9574C, BOCA-ES RR 98-25, ICBO-ES ER 3223. FM 4880 – see Factory Mutual Approval Guide.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1/2 (12.7)</td> <td>3/4 (19.1)</td> <td>1 (25.4)</td> <td>1 1/4 (31.8)</td> <td>1 1/2 (38.1)</td> <td>1 3/4 (44.5)</td> <td>2 (50.8)</td> <td>2 1/4 (57.2)</td> <td>2 1/2 (63.5)</td> <td>2 3/4 (69.8)</td> <td>3 (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' Custom lengths available for orders over 5,000 sq. ft.</p>	Nominal Board Thickness**	in (mm)	1/2 (12.7)	3/4 (19.1)	1 (25.4)	1 1/4 (31.8)	1 1/2 (38.1)	1 3/4 (44.5)	2 (50.8)	2 1/4 (57.2)	2 1/2 (63.5)	2 3/4 (69.8)	3 (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 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>	Complies with ASTM C 1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST & ESI ER 9574C, BOCA-ES RR 98-25, ICBO-ES ER 3223. FM 4880 – see Factory Mutual Approval Guide.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1/2 (12.7)</td> <td>3/4 (19.1)</td> <td>1 (25.4)</td> <td>1 1/4 (31.8)</td> <td>1 1/2 (38.1)</td> <td>1 3/4 (44.5)</td> <td>2 (50.8)</td> <td>2 1/4 (57.2)</td> <td>2 1/2 (63.5)</td> <td>2 3/4 (69.8)</td> <td>3 (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' Custom lengths available for orders over 5,000 sq. ft.</p>	Nominal Board Thickness**	in (mm)	1/2 (12.7)	3/4 (19.1)	1 (25.4)	1 1/4 (31.8)	1 1/2 (38.1)	1 3/4 (44.5)	2 (50.8)	2 1/4 (57.2)	2 1/2 (63.5)	2 3/4 (69.8)	3 (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>	Complies with ASTM C 1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST & ESI ER 9574C, BOCA-ES RR 98-25, ICBO-ES ER 3223. FM 4880 – see Factory Mutual Approval Guide.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1/2 (12.7)</td> <td>3/4 (19.1)</td> <td>1 (25.4)</td> <td>1 1/4 (31.8)</td> <td>1 1/2 (38.1)</td> <td>1 3/4 (44.5)</td> <td>2 (50.8)</td> <td>2 1/4 (57.2)</td> <td>2 1/2 (63.5)</td> <td>2 3/4 (69.8)</td> <td>3 (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' Custom lengths available for orders over 5,000 sq. ft.</p>	Nominal Board Thickness**	in (mm)	1/2 (12.7)	3/4 (19.1)	1 (25.4)	1 1/4 (31.8)	1 1/2 (38.1)	1 3/4 (44.5)	2 (50.8)	2 1/4 (57.2)	2 1/2 (63.5)	2 3/4 (69.8)	3 (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 Metal Building Board</b> A polyisocyanurate foam core with an embossed aluminum foil facer on both sides. These aluminum foil facers serve to dampen the noise resulting from the system's movement when outside temperatures change. Available from 1/2" to 4-1/4" thick. Can be installed exposed to the interior without a thermal barrier.</p>	Complies with ASTM C 1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST & ESI ER 9574C, BOCA-ES RR 98-25, ICBO-ES ER 3223. FM 4880 – see Factory Mutual Approval Guide.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1/2 (12.7)</td> <td>3/4 (19.1)</td> <td>1 (25.4)</td> <td>1 1/4 (31.8)</td> <td>1 1/2 (38.1)</td> <td>2 (50.8)</td> <td>2 1/2 (63.5)</td> <td>2 5/8 (66.7)</td> <td>2 3/4 (69.8)</td> <td>3 (76.2)</td> <td>3 1/2 (88.9)</td> <td>4 (101.6)</td> <td>4 1/4 (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>19.0</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: 4' x 8'; 4' x 10' Custom lengths available for orders over 5,000 sq. ft.</p>	Nominal Board Thickness**	in (mm)	1/2 (12.7)	3/4 (19.1)	1 (25.4)	1 1/4 (31.8)	1 1/2 (38.1)	2 (50.8)	2 1/2 (63.5)	2 5/8 (66.7)	2 3/4 (69.8)	3 (76.2)	3 1/2 (88.9)	4 (101.6)	4 1/4 (108)	R-Value at 75°F Mean		3.6	5.4	7.2	9.0	10.8	14.4	18.0	19.0	19.8	21.6	25.2	28.8	30.0
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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>	Complies with ASTM C 1289 Type I, Class 2. Meets IBC/IRC requirements for foam plastic insulation. See SBCCI PST & ESI ER 9574C, BOCA-ES RR 98-25, ICBO-ES ER 3223. FM 4880 – see Factory Mutual Approval Guide.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in (mm)</td> <td>1/2 (12.7)</td> <td>3/4 (19.1)</td> <td>1 (25.4)</td> <td>1 1/4 (31.8)</td> <td>2 (38.1)</td> <td>2 1/2 (63.5)</td> <td>2 5/8 (66.7)</td> <td>2 3/4 (69.8)</td> <td>3 (76.2)</td> <td>3 1/2 (88.9)</td> <td>4 (101.6)</td> <td>4 1/4 (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>14.4</td> <td>18.0</td> <td>19.0</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: 4' x 8'; 4' x 10' Custom lengths available for orders over 5,000 sq. ft.</p>	Nominal Board Thickness**	in (mm)	1/2 (12.7)	3/4 (19.1)	1 (25.4)	1 1/4 (31.8)	2 (38.1)	2 1/2 (63.5)	2 5/8 (66.7)	2 3/4 (69.8)	3 (76.2)	3 1/2 (88.9)	4 (101.6)	4 1/4 (108)	R-Value at 75°F Mean		3.6	5.4	7.2	9.0	14.4	18.0	19.0	19.8	21.6	25.2	28.8	30.0		
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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.

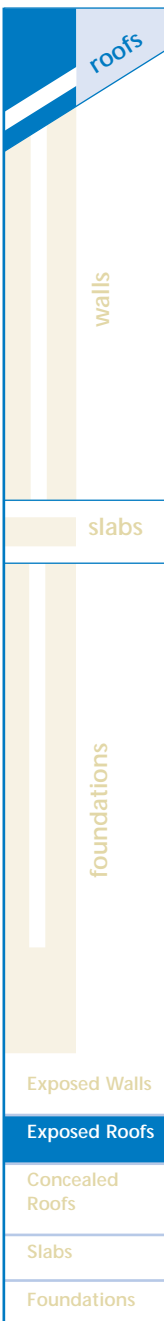


- Exposed Walls
- Exposed Roofs
- Concealed Roofs
- Slabs
- Foundations






EXPOSED ROOFS

Product and Description	Building Code Compliance	Technical Information																																													
 <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>(69.8)</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' Custom lengths available for orders over 5,000 sq. ft.</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)	(69.8)	(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>(69.8)</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' Custom lengths available for orders over 5,000 sq. ft.</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)	(69.8)	(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 Metal Building Board</b> A polyisocyanurate foam core with an embossed aluminum foil facer on both sides. These aluminum foil facers serve to dampen the noise resulting from the system's movement when outside temperatures change. Available from 1/2" to 4-1/4" thick. 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 5/8</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>(66.7)</td> <td>(69.8)</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>19.0</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: 4' x 8'; 4' x 10' Custom lengths available for orders over 5,000 sq. ft.</p>	Nominal Board Thickness**	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	2 5/8	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)	(66.7)	(69.8)	(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	19.0	19.8	21.6	25.2	28.8	30.0
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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>2</td> <td>2 1/2</td> <td>2 5/8</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>(63.5)</td> <td>(66.7)</td> <td>(69.8)</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>14.4</td> <td>18.0</td> <td>19.0</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: 4' x 8'; 4' x 10' Custom lengths available for orders over 5,000 sq. ft.</p>	Nominal Board Thickness**	in	1/2	3/4	1	1 1/4	2	2 1/2	2 5/8	2 3/4	3	3 1/2	4	4 1/4		(mm)	(12.7)	(19.1)	(25.4)	(31.8)	(38.1)	(63.5)	(66.7)	(69.8)	(76.2)	(88.9)	(101.6)	(108)	R-Value at 75°F Mean		3.6	5.4	7.2	9.0	14.4	18.0	19.0	19.8	21.6	25.2	28.8	30.0			
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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.

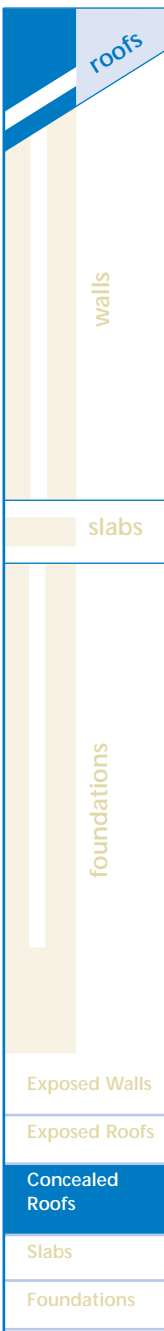


CONCEALED ROOFS



Product and Description	Building Code Compliance	Technical Information																																													
 <p><b>THERMAX Metal Building Board</b> A polyisocyanurate foam core with an embossed aluminum foil facer on both sides. These aluminum foil facers serve to dampen the noise resulting from the system's movement when outside temperatures change. Available from 1/2" to 4-1/4" thick. 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 5/8</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>(66.7)</td> <td>(69.8)</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>19.0</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: 4' x 8'; 4' x 10' Custom lengths available for orders over 5,000 sq. ft.</p>	Nominal Board Thickness**	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	2 5/8	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)	(66.7)	(69.8)	(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	19.0	19.8	21.6	25.2	28.8	30.0
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 <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</td> <td>3/4</td> <td>1</td> <td>1 1/2</td> <td>2</td> <td>2 1/2</td> <td>3</td> <td>4</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(19.1)</td> <td>(25.4)</td> <td>(38.1)</td> <td>(50.8)</td> <td>(63.5)</td> <td>(76.2)</td> <td>(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'; 4' x 9'</p>	Nominal Board Thickness**	in	3/4	1	1 1/2	2	2 1/2	3	4		(mm)	(19.1)	(25.4)	(38.1)	(50.8)	(63.5)	(76.2)	(101.6)	R-Value at 75°F Mean		3.8	5.0	7.5	10.0	12.5	15.0	20.0																		
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 <p><b>VALUE-R*</b> Polyisocyanurate foam insulation board with radiant barrier-quality reinforced aluminum foil facers on both sides.</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</td> <td>2</td> <td>2 1/2</td> <td>3</td> <td>4</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(50.8)</td> <td>(63.5)</td> <td>(76.2)</td> <td>(101.6)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>14.4</td> <td>18.0</td> <td>21.6</td> <td>30.0</td> </tr> </table> <p>Board Size: 4' x 8'; 4' x 9'</p>	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																											
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R-Value at 75°F Mean		14.4	18.0	21.6	30.0																																										
 <p><b>HY-THERM* AP Roof Insulation</b> A polyisocyanurate foam insulation board with specially formulated organic/inorganic facers. It is suited for use under gravel-surfaced, fully mopped built-up (with suitable coverboard), modified bitumen roofing (with suitable coverboard), single-ply and metal roof applications.</p>	<p>Complies with ASTM C 1289 Type II, Class 1. Meets IBC/IRC requirements for foam plastic insulation.</p>	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>1</td> <td>1 1/2</td> <td>1.8</td> <td>2</td> <td>2 1/2</td> <td>3</td> <td>4</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(25.4)</td> <td>(38.1)</td> <td>(45.7)</td> <td>(50.8)</td> <td>(63.5)</td> <td>(76.2)</td> <td>(101.6)</td> </tr> <tr> <td>R-Value at 75°F Mean</td> <td></td> <td>6</td> <td>10.0</td> <td>12.5</td> <td>14.3</td> <td>18.2</td> <td>21.7</td> <td>30.2</td> </tr> </table> <p>Board Size: 4' x 4'; 4' x 8'</p>	Nominal Board Thickness**	in	1	1 1/2	1.8	2	2 1/2	3	4		(mm)	(25.4)	(38.1)	(45.7)	(50.8)	(63.5)	(76.2)	(101.6)	R-Value at 75°F Mean		6	10.0	12.5	14.3	18.2	21.7	30.2																		
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\*Trademark of The Dow Chemical Company




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.



**SLABS**

Product and Description	Building Code Compliance	Technical Information																											
 <p><b>STYROFOAM Highload 40, 60 &amp; 100</b> An extruded polystyrene foam insulation board with high compressive strength developed specifically for in-ground applications and freezer floors.</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 & ESI ER 9576D, Und. Lab. Inc.® Classified, see Classification Certificate D369.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>2</td> <td>3</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(50.8)</td> <td>(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	2	3		(mm)	(50.8)	(76.2)	R-Value at 75°F Mean		10.0	15.0															
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	(mm)	(50.8)	(76.2)																										
R-Value at 75°F Mean		10.0	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>	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 & ESI ER 9576D, Und. Lab. Inc.® Classified, see Classification Certificate D369.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>3/4</td> <td>1</td> <td>1 1/2</td> <td>2</td> <td>2 1/2</td> <td>3</td> <td>4</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(19.1)</td> <td>(25.4)</td> <td>(38.1)</td> <td>(50.8)</td> <td>(63.5)</td> <td>(76.2)</td> <td>(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'; 4' x 9'</p>	Nominal Board Thickness**	in	3/4	1	1 1/2	2	2 1/2	3	4		(mm)	(19.1)	(25.4)	(38.1)	(50.8)	(63.5)	(76.2)	(101.6)	R-Value at 75°F Mean		3.8	5.0	7.5	10.0	12.5	15.0	20.0
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R-Value at 75°F Mean		3.8	5.0	7.5	10.0	12.5	15.0	20.0																					

**FOUNDATIONS**

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>	Meets IBC/IRC requirements for foam plastic insulation. See ICBO-ES ER 2257, BOCA-ES RR 21-02, SBCCI PST & ESI ER 9576D, Und. Lab. Inc.® Classified, see Classification Certificate U589.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>1/4</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(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	1/4		(mm)	(6.4)	R-Value at 75°F Mean		1.0																		
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	(mm)	(6.4)																											
R-Value at 75°F Mean		1.0																											
 <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>	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 & ESI ER 9576D, Und. Lab. Inc.® Classified, see Classification Certificate D369.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>1 1/2</td> <td>2 1/8</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(38.1)</td> <td>(54.4)</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	1 1/2	2 1/8		(mm)	(38.1)	(54.4)	R-Value at 75°F Mean		7.0	10.0															
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	(mm)	(38.1)	(54.4)																										
R-Value at 75°F Mean		7.0	10.0																										
 <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>	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 & ESI ER 9576D, Und. Lab. Inc.® Classified, see Classification Certificate D369.	<table border="1"> <tr> <td>Nominal Board Thickness**</td> <td>in</td> <td>3/4</td> <td>1</td> <td>1 1/2</td> <td>2</td> <td>2 1/2</td> <td>3</td> <td>4</td> </tr> <tr> <td></td> <td>(mm)</td> <td>(19.1)</td> <td>(25.4)</td> <td>(38.1)</td> <td>(50.8)</td> <td>(63.5)</td> <td>(76.2)</td> <td>(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'; 4' x 9'</p>	Nominal Board Thickness**	in	3/4	1	1 1/2	2	2 1/2	3	4		(mm)	(19.1)	(25.4)	(38.1)	(50.8)	(63.5)	(76.2)	(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	3/4	1	1 1/2	2	2 1/2	3	4																					
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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.



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**STYROFOAM Extruded Polystyrene 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)  
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