



Dow Building Solutions

Manufacturer's Insulation Fact Sheet

Extruded Polystyrene Foam Home Insulation Products

This fact sheet contains important information about STYROFOAM™ brand insulation, BLUECOR™ brand Underlayment and DOW High Performance Underlayment insulation. These products, available from Dow Building Solutions, are made of extruded polystyrene foam insulation and are clearly identified by the DOW Diamond Logo.

Aged R-Value (Measured at 75° Mean Temperature)

Product Thickness (nominal inches)	0.38	1/4	3/8	1/2	0.55	5/8	3/4	0.78	1	1 1/2	2	2 1/2	3
STYROFOAM™ Brand Square Edge Insulation	–	–	–	–	2.8*	–	3.8	4.0*	5.0	7.5	10.0	–	–
STYROFOAM™ Brand Tongue & Groove Insulation	–	–	–	–	–	–	3.8	–	5.0	7.5	10.0	–	–
STYROFOAM™ Brand Residential Sheathing	–	–	–	3.0	–	–	4.0	–	5.0	–	–	–	–
STYROFOAM™ Brand Residing Board	–	–	–	2.8	–	–	–	–	–	–	–	–	–
STYROFOAM™ UTILITYFIT™ PSI 15	–	–	–	–	–	–	–	–	5.0	7.5	10.0	–	–
STYROFOAM™ DURAMATE™ Plus Brand Insulation	2.0	–	–	3.0	–	–	–	–	–	–	–	–	–
STYROFOAM™ WALLMATE™ Brand Insulation	–	–	–	–	–	–	–	–	–	7.5	10.0	–	–
STYROFOAM™ PERIMATE™ Brand Insulation	–	–	–	–	–	–	–	–	–	7.0	10.0 ¹	–	–
STYROFOAM™ STUCCOMATE™ Brand Insulation	–	–	–	–	–	–	–	–	5.0	–	–	–	–
STYROFOAM™ Scoreboard Brand Insulation	–	–	–	–	–	–	3.8	–	5.0	7.5	10.0	12.5	15
STYROFOAM™ BLUEGUARD™ Brand Insulation	–	–	–	–	–	–	–	–	5.0	7.5	10.0	–	–
BLUECOR™ Brand Underlayment	–	1.0	–	–	–	–	–	–	–	–	–	–	–
DOW™ High Performance Underlayment	–	1.0	1.5	–	–	–	–	–	–	–	–	–	–

¹ Nominal 2" thickness. * Available in Florida only

Board Coverage Area

Standard Size (feet) sizes vary by product	2 x 8	4 x 8	4 x 9	4 x 50
Coverage per board (sq. ft.)	16	32	36	200

READ THIS BEFORE YOU BUY

The chart shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy.

There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel.

To get the marked R-value, it is essential that this insulation be installed properly.

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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™ Brand Plus, STYROFOAM™ Brand Residential Sheathing, STYROFOAM™ Brand Tongue and Groove, STYROFOAM™ Brand Square Edge, STYROFOAM™ Brand 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).

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.

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.

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Manufacturer's Insulation Fact Sheet

Polyisocyanurate Foam Home Insulation Products

This fact sheet contains important information about DOW Polyisocyanurate insulation. These products, available from Dow Building Solutions, are clearly identified by the DOW Diamond Logo.

Product R-Value

Product Thickness (nominal inches)	0.38	0.5	0.59	0.625	0.75	1.0	1.25	1.5	1.55	1.75	2.0
THERMAX™ Sheathing	–	3.3	–	–	5.0	6.5	–	9.8	10.1	–	13.0
Reflective system R-Value with 3/4" vertical air space	–	6.1	–	6.9	7.8	9.3	–	12.6	–	–	15.8
THERMAX™ White Finish	–	3.3	–	–	5.0	6.5	–	9.8	10.1 [†]	–	13.0
TUFF-R™	–	3.3	–	4.1 ^{††}	5.0	6.5	–	9.8	–	–	–
Reflective system R-Value with 3/4" vertical air space	–	6.1	–	6.9	7.8	9.3	–	12.6	–	–	–
TUFF-R™ C	–	–	–	–	–	–	–	9.8	–	–	13.0
Reflective system R-Value with 3/4" vertical air space	–	–	–	–	–	–	–	12.6 ^{†††}	–	–	15.8
Super TUFF-R™	2.0	3.3	–	4.1 ^{††}	5.0	6.5	–	9.8	–	–	–
STURDY-R™	–	2.5	3.0	–	4.0	5.0	–	–	–	–	–
QUIK-R™	–	–	3.0	–	4.0	5.0	–	–	–	–	–

[†] Only 1.55" THERMAX™ White Finish standard offering. All other sizes available under non-standard business rules.

^{††} Available under non-standard business rules.

^{†††} Reflective System R-value is the sum of the product R-value plus additional R-value calculated when the aluminum foil surface is installed next to a non-ventilated 3/4" air space (R-value = 2.8). All values from the ASHRAE Fundamentals Handbook.

Board Coverage Area

Standard Size (feet) sizes vary by product	4x8	4x9	4x10	4x12
Coverage per board (sq. ft.)	32	36	40	48

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To get the marked R-value, it is essential that this insulation be installed properly.

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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.

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.

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