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STURDY-R Insulation

STURDY-R* polyisocyanurate insulation is one of the strongest, most damage-resistant foam sheathings available. STURDY-R insulation consists of a closed-cell polyisocyanurate foam core sandwiched between two highly durable exterior facers. The proprietary fiberglass facers are bonded with a superior resin to the core for exceptional strength. STURDY-R insulation is designed to resist the rigors of shipping and handling and severe weather conditions.

Install STURDY-R insulation as exterior sheathing in residential applications wherever you would use more traditional sheathings. STURDY-R insulation can be used as the substrate for nearly any type of siding.

PROPERTIES

STURDY-R insulation is available in 4' x 8' (1219.2 mm x 2438.4 mm) and 4' x 9' sheets (1219.2 mm x 2743.2 mm), with thicknesses ranging from 1/2" (12.7 mm) to 1" (25.4 mm) (Table 1).

STURDY-R insulation exhibits the properties indicated in Table 2 when tested as represented.

Feature	Benefit
High, long-term R-value ¹	Reduces energy costs
Rigid substrate for most exterior cladding systems	Easy and cost-efficient to install under most exterior claddings
Extremely strong, yet lightweight and easy to cut	Durable, easy to handle, stands up to excessive abuse
Sheathing can be fastened with nails or staples	Quick and easy to install

¹R-value means resistance to heat flow. The higher the R-value, the greater the insulating power.

TABLE 1

STURDY-R Insulation R-Values ¹	
Nominal Board Thickness	R-Value ²
.5"	2.5
.59"	3.0
.75"	4.0
1"	5.0

¹Aged R-value of core foam @ 75°F mean temperature; R-values are expressed in ft²•h•°F/Btu.

²R-value determined by ASTM C518.

TABLE 2

Physical Properties	
Property and Test Method	Value
Compressive strength, ASTM D 1622, psi (kPa) min.	20 (137)
Dimensional stability, ASTM D 2126, 158°F (70°C) at 97% RH, % linear change	< 2
Core foam flame spread ¹ , ASTM E 84	< 25
Smoke developed, ASTM E 84	< 450

¹This numerical rating is not intended to reflect hazards presented by this or any other material under actual conditions.

CODE COMPLIANCES

STURDY-R insulation complies with the following standards and codes:

- IBC/IRC – International Building Code/International Residential Code, meets requirements for foam plastic insulation
- NES – National Evaluation Service, Inc., NER-540

- FHA – Federal Housing Administration Minimum Property Standards
- ASTM C 1289 Type II, Class 2
- IBCO – International Conference of Building Officials, ES ER-5728

IN THE U.S.:

- For Technical Information: **1-866-583-BLUE (2583)**
- For Sales Information: **1-800-232-2436**

THE DOW CHEMICAL COMPANY

- Building Materials • 200 Larkin • Midland, MI 48674 • www.insulateyourhome.com

NOTICE: Changes to the International Residential Code (IRC) require the installation of a weather-resistive barrier within most exterior wall assemblies in residential construction. The following Dow insulated sheathing products qualify as a weather-resistive barrier (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 & Groove, STYROFOAM Square Edge, STYROFOAM Residing Board, THERMAX®, TUFF-R®, 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 procedures meet code requirements for your particular location.

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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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