

Styrofoam™ Brand Cavitymate™ Ultra Extruded Polystyrene Foam Insulation

Durable, High R-Value Wet Cavity Wall Insulation

FEATURES/BENEFITS

Description

Styrofoam™ Brand Cavitymate™ Ultra Insulation* is a moisture-resistant, durable and lightweight extruded polystyrene foam board specifically designed for use in wet cavity wall environments. Manufactured with a patented carbon black technology, Styrofoam™ Brand Cavitymate™ Ultra features an R-value of 5.6 per inch (RSI of 0.97 per 25 mm)**; the highest of all extruded polystyrene foam insulation products. Its closed cell structure provides advanced long-term thermal performance and moisture control.

Ease of Installation

Styrofoam™ Brand Cavitymate™ Ultra Insulation boards are easy to handle, cut and install. Sized to fit snugly between wall ties, Styrofoam™ Brand Cavitymate™ Ultra can save time and money on the job site.

Sustainable Solutions

Styrofoam™ Brand Cavitymate™ Ultra Insulation is hydrochlorofluorocarbon (HCFC) free with zero ozone depletion potential. Styrofoam™ Brand insulation products produced in North America contain an average of 20% pre-consumer recycled content certified by UL Environment Inc.

PROPERTIES

Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use.

TABLE 1: U.S. Sizes, R-values and Edge Treatments for Styrofoam™ Brand Cavitymate™ Ultra Extruded Polystyrene Foam Insulation

Nominal Board Thickness ¹ , in	R-value ²	Ultra air barrier wall system		Edge Treatment
		Board Size, in	Board Size, in	
1.75	10.0	15 3/4" x 96"	16" x 96"	Square Edge
2.18	12.0	15 3/4" x 96"	16" x 96"	Square Edge
2.50	14.0	15 3/4" x 96"	16" x 96"	Square Edge
3.00	16.0	15 3/4" x 96"	16" x 96"	Square Edge

¹ Not to be considered sales specifications.

² R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-values are expressed in ft²·h°F/Btu. R-value determined by ASTM C518.

TABLE 2: Canadian Sizes, R-values and Edge Treatments for Styrofoam™ Brand Cavitymate™ Ultra Extruded Polystyrene Foam Insulation

Nominal Board Thickness ¹ , in	R-value ²	Ultra air barrier wall system Board Size, in	Edge Treatment
75	16.5	400 x 2400	Butt Edge
91	20.0	400 x 2400	Butt Edge
75	16.5	600 x 2400	Butt Edge

¹ Additional thicknesses available. Contact your Dow representative for more information. Not all thicknesses available in all regions.

² R means resistance to heat flow. The higher the R-value or RSI (R-Value Système International), the greater the insulating power. R-values are expressed in ft²·h°F/Btu. RSI values are expressed in m²·C/W. R-value determined by ASTM C518.

* Styrofoam™ Brand Cavitymate™ Ultra Insulation is a former product of The Dow Chemical Company

** Aged R-value (RSI) at 75°F (24°C) mean temp. R means resistance to heat flow. The higher the R-value or RSI, the greater the insulating power. Refer to Tables 3 and 4 for thermal resistance at other mean temperatures.

TESTING

Applicable Standards

Styrofoam™ Brand Cavitymate™ Ultra Insulation meets ASTM C578 Type IV and CAN/ULC S-701-05 Type 3 – Standard Specification for Rigid Cellular Polystyrene Insulation. Applicable standards include:

- **C518** – Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- **D1621** – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- **E96** – Standard Test Methods for Water Vapor Transmission of Materials
- **D696** – Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between –30°C and 30°C With a Vitreous Silica Dilatometer
- **C203** – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
- **D2126** – Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
- **D2842** – Standard Test Method for Water Absorption of Rigid Cellular Plastics CAN/ULC S701 Type 3

Notice

Styrofoam™ Brand Cavitymate™ Ultra Insulation complies with the following codes:

- Meets IBC/IRC requirements for foam plastic insulation; see ICC-ES ESR 2142
- BOCA-ES RR 21-02
- Underwriters Laboratories, Inc. (UL) Classified, see Classification Certificate D369
- National Building Code of Canada
- CCMC – Evaluation Listing #11420-L

Warranty

DuPont can provide technical information to help address questions when using Styrofoam™ Brand Cavitymate™ Ultra. Technical personnel are available to assist with any insulation project at 1-866-583-2583. Visit building.dupont.com/warranties for warranty information.

HANDLING

WARNING: For Professional Use Only. Read and follow the entire Safety, Handling, and Storage section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. The information below is designed to protect the user and allow for safe use and handling of DuPont products. Follow all applicable federal, state, local and employer regulations.

Precautionary Statements

- Since dust would impair the performance of adhesives and finishes, dusty surfaces should be brushed off before these products are applied. A light-colored, opaque protective covering should be used if excessive solar exposure is expected.
- Styrofoam™ Brand Cavitymate™ Ultra Insulation is combustible; protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult MSDS, call DuPont at 1-866-583-2583 or contact your local building inspector.
- Do not leave Styrofoam™ Brand Cavitymate™ Ultra exposed to direct sunlight for more than 90 days. Consult a DuPont representative if exposure is expected to be longer than 90 days. Prolonged exposure to ultraviolet radiation may

cause the surface of Styrofoam™ Brand Cavitymate™ Ultra to become faded and dusty. The surface degradation will have no measurable effect on the insulating value of the plastic foam unless the deterioration is allowed to continue until actual foam thickness is lost.

Shelf Life and Storage

When stored outdoors, keep insulation boards tarped or covered to protect from weather and weighted down to prevent boards from being blown around by the wind. Store above standing water.

Disposal

Dispose of any residual DuPont product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.

For more information visit us at styrofoam.com/cavitymate or call 1-866-583-2583

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CAUTION: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult (Material) Safety Data Sheet ((M)SDS), call DuPont at 1-866-583-2583 or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including DuPont can give assurance that mold will not develop in any specific system.

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