

INSULATE YOUR HOME FROM TOP TO BOTTOM



Add Value With
STYROFOAM INSULATION
SOLUTIONS

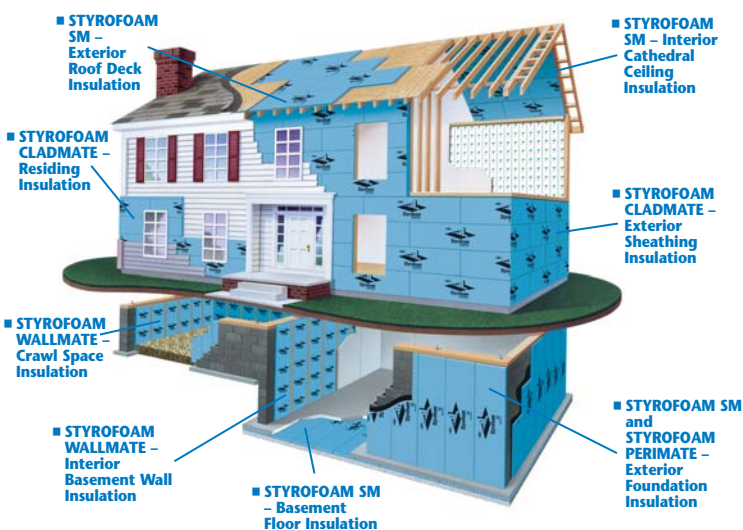
The right insulation for the right job

Different areas of your home require different types of insulation.

For this reason, Dow has developed a whole family of insulating products designed to insulate your home from top to bottom, inside and out.

Choose STYROFOAM* SM Insulation or STYROFOAM PERIMATE* Insulation for exterior below-grade applications, STYROFOAM WALLMATE* Insulation for interior basement applications and STYROFOAM CLADMATE* Insulation for exterior sheathing.

STYROFOAM insulation products can significantly reduce consumption of home heating fuels and air conditioning energy and in the process provide you with significant savings in your home heating and cooling costs.



Everything you always wanted to know about insulation

A well-insulated home is a comfortable home.

Insulation is a means of controlling temperature and humidity in order to meet our personal comfort needs. Insulation also helps to reduce energy consumption.

Heat energy, provided mainly by gas and electricity, can be wasted – unnecessarily harming the environment. Inefficient energy use can significantly increase the year-round cost of running a home.

By conserving energy with their superior “R-values,” STYROFOAM insulation products will provide great savings on your home heating and air conditioning costs for many years to come.

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STYROFOAM SM Insulation

A premium insulation for those who demand the best from their building materials.

STYROFOAM SM Insulation is an extruded polystyrene foam which has an insulation value of R-5 per inch. Its high compressive strength makes it suitable for many applications and, in particular, exterior below-grade use.

Tough and moisture-resistant, STYROFOAM SM insulation has become synonymous with quality, comfort, energy savings and peace of mind.

Professionals choose STYROFOAM SM insulation for its ease of installation and long-lasting value.



STYROFOAM WALLMATE Insulation

STYROFOAM WALLMATE Insulation is specifically designed for new construction and retrofit situations. Intended for interior walls, it can be applied with a minimum of labour or mess.

STYROFOAM WALLMATE insulation provides a lifetime of economical comfort, benefits of moisture resistance, and, with its thin profile, very little loss of precious room space.

STYROFOAM WALLMATE insulation is available with a slotted edge treatment that will accommodate up to a 1 x 3 or 1 x 4 (West) wood nailer and provide 24" centres for fastening.

STYROFOAM WALLMATE insulation is easy to install, and drywall can be secured right over it to the wood nailers.



STYROFOAM CLADMATE Insulation

A perfect material for new residential and retrofit projects, STYROFOAM CLADMATE Insulation is a major step forward in economical exterior sheathing.



It is cost-competitive with conventional, non-insulating sheathing products, and, with its good compressive strength, offers an excellent base for siding.

Made of extruded polystyrene, STYROFOAM CLADMATE insulation

has a thin profile which allows minimum framing for windows and doors.

STYROFOAM Buoyancy Billets

STYROFOAM Buoyancy Billets are large blocks of rigid extruded polystyrene used as flotation devices for docks, rafts and boathouses.

STYROFOAM Buoyancy Billets are composed of millions of tiny air cells, each one acting as an independent buoyancy chamber.



This ensures that STYROFOAM Buoyancy Billets won't lose their buoyancy if punctured and, therefore, will offer long-lasting performance.

In addition, they won't waterlog, rust or corrode and are resistant to damage from destructive marine growth.

STYROFOAM Buoyancy Billets are lightweight, easy to install, and their excellent buoyancy is illustrated by the fact that a 10-inch billet provides 1½ times the buoyancy of traditionally used steel drums.

STYROFOAM SM Insulation

CAN/ULC S-701 Type 4 – CCMC 06525-L

Thickness ¹	R-value ²	Board Size	Edge Treatment		Minimum Compressive [†] Strength (PSI)
			Shiplapped	Buttedged	
1"	R-5	2' x 8'	Yes	Yes	30
1.5"	R-7.5	2' x 8'	Yes	Yes	30
2"	R-10	2' x 8'	Yes	Yes	30
2.4"	R-12	2' x 8'	Yes	No	30
2.5"	R-12.5	2' x 8'	Yes	No	30
3"	R-15	2' x 8'	Yes	Yes	30
4"	R-20	2' x 8'	Yes	Yes	30

STYROFOAM WALLMATE Interior Wall Insulation

CAN/ULC S-701 Type 2 – CCMC 12083-L

Thickness ¹	R-value ²	Board Size	Edge Treatment		Minimum Compressive [†] Strength (PSI)
			Slotted	Buttedged	
1.5"	R-7.5	2' x 8'	Yes	No	16
2"	R-10	2' x 8'	Yes	No	16
2.4" ^{††}	R-12	2' x 8'	No	Yes	16

STYROFOAM CLADMATE Exterior Wall Sheathing Insulation

CAN/ULC S-701 Type 2 – CCMC 12084-L

Thickness ¹	R-value ²	Board Size	Edge Treatment		Minimum Compressive [†] Strength (PSI)
			Shiplapped	Buttedged	
.5"	R-2.5	2' x 8'	No	Yes	16
.75"	R-3.75	2' x 8'	Yes	No	16
.8"	R-4	2' x 8'	Yes	No	16
1"	R-5	2' x 8'	Yes	No	16
1" ^{†††}	R-5	4' x 8'	Yes	No	16
1.1"	R-5.5	2' x 8'	Yes	No	16
1.3"	R-6.5	2' x 8'	Yes	No	16
1.4"	R-7	2' x 8'	Yes	Yes	16
1.5"	R-7.5	2' x 8'	Yes	No	16
1.5" ^{†††}	R-7.5	4' x 8'	Yes	No	16

STYROFOAM Buoyancy Billets

Size	Volume (cu. ft.)	Approximate weight (lbs.)	Buoyancy force (lbs.) ³
7" x 20" x 96"	7.7	16	465
10" x 20" x 96"	11.1	23	670

¹Not all thicknesses are available in all areas of Canada.

²As per CAN/ULC S-701 (CAN/CGSB 51.20-M87).

³Based on a water density of 62.4 lb/ft³. Buoyancy force does not include a safety factor.

Design should include an appropriate safety factor.

[†]At 10% deformation or yield, whichever comes first.

^{††}Available in western Canada only.

^{†††}Available in 9' lengths.

What are the differences between shiplapped, buttedged and slotted insulation?



Shiplapped

The terms shiplapped, buttedged and slotted refer to the three different edge treatments in which STYROFOAM insulation products are available.



Buttedged

The shiplapped edge treatment allows sections of STYROFOAM insulation to interlock when placed side-by-side, thereby minimizing heat loss at the insulation joints.



Slotted

The buttedged profile is ideal for fitting between strapping and allowing a snug fit.

Tips for making installation easier

For information about the easy installation of STYROFOAM insulation products, please refer to the helpful Dow "How To" literature. Copies of these are available at your local dealer and at www.insulateyourhome.ca

Downstairs, for interior basement walls, the slotted feature accepts wood nailing strips secured back in the masonry substrate with concrete fasteners. When placed side-by-side, the slotted edge will accommodate up to a 1 x 3 or 1 x 4 (West) wood nailer and provide 24" centres for fastening.

Common properties of STYROFOAM insulation products

STYROFOAM insulation products are premier insulations suitable for a wide variety of applications.

They are simple to cut to size and easy to install.

They can be nailed or fixed using conventional tools and materials readily available from your local building supply store.

Due to their high compressive strength and water resistance, STYROFOAM insulation products have proven long-term insulation performance.

STYROFOAM insulation products are CFC-Free** and have been installed in residential and commercial buildings around the world for over 50 years.

Your choice of insulation – the most effective insulation, is therefore important.

The right insulation will help make your home comfortable, conserve costly energy, reduce harm to the environment and save you money.

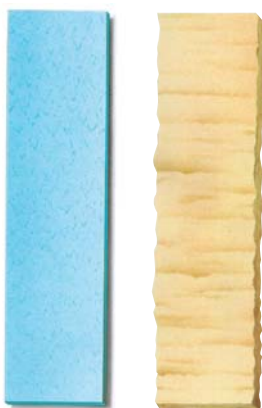
**STYROFOAM insulation products are manufactured with HCFC blowing agents which have ozone depletion potentials that are 93.5% less than standard CFC blowing agents.

What is the difference between rigid board and batt insulation?

Although both batt and rigid board insulation rely on retention of air as a basis for their performance, batt insulation can suffer from moisture absorption in damp environments and sagging in uneven wall cavities. This can cause it to lose its insulating capability.

Thermal shorting is another problem associated with wood frame construction when only batt insulation is used in wall cavities.

This leaves the wood framing uninsulated, which permits heat loss readily through the timber.



Rigid board

Batt insulation

What is the “RSI” or “R-value”? How much do I need?

The “RSI” value (metric measurement) or “R-value” (imperial measurement) is a measure of insulation effectiveness and was developed as an accurate, reliable method of measuring resistance to heat flow.

The higher the “R-value,” the better its resistance to heat flow. Therefore, it’s important to select your insulation according to its “R-value,” not its thickness.

“What “R-value” do I need for my home?”

To answer this question, there are many factors to consider: type of construction, local weather conditions, the age and position of the house, etc.

As Building Code recommendations vary from province to province, it is advisable to consult your provincial and local building codes and applicable energy codes for your own specific needs.

IN CANADA:

- For Technical Information: **1-866-583-BLUE (2583) (English);
1-800-363-6210 (French)**
- For Sales Information: **1-800-232-2436 (English);
1-800-565-1255 (French)**

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COMBUSTIBLE: Protect from high heat sources. For more information, consult MSDS and/or call Dow at 1-866-583-BLUE (2583). In an emergency, call Dow (U.S.: 1-989-636-4400) (Canada: 1-519-339-3711). Local building codes may require a protective or thermal barrier. Contact your local building inspector for more information.

Building and/or construction practices unrelated to insulation or housewrap 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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