

“ It’s beautiful,  
but I wish it could  
be properly  
insulated. ”

Old houses. Their grand facades and elegant interiors are aesthetic reminders of an era long since past. But as you may have discovered, their timeless beauty is often merely skin deep. Most older homes are typically drafty, cold and uncomfortable. Not to mention expensive to heat and cool. At least that is, until now.

**The Logical Solution.**

We’d like to introduce you to the Icynene Insulation System.™ Icynene has none of the above problems. It’s a system that offers architects, renovators, real estate agents and old house buyers an effective method of upgrading the home to modern standards. It can be done at a fraction of the cost to gut and re-install conventional insulation while preserving many of the original architectural details. And when you consider that insulation can cover 85% of the building envelope,



upgrading becomes a lot less expensive than replacing windows.

Icynene is a proven product that fills wall cavities completely. No gaps, period. It is

injected as a liquid and expands inside the wall. It can also be sprayed overhead or onto irregular surfaces and adheres to literally everything it touches.

It doesn’t sag, settle or turn to dust. Nor will it create moisture problems within the walls. As an added benefit, Icynene has no negative environmental effects and is independently certified for use by people who suffer from allergies, asthma or other environmental sensitivities.

As you can see, Icynene offers owners of older homes an effective way to upgrade to modern standards at a fraction of the cost of gutting and re-installing conventional insulation.

Icynene is an investment that pays you back in comfort, peace and quiet and provides a sizable reduction in your monthly utility bills.

**Environmental Characteristics**

CFCs or HCFCs	none
Formaldehyde	none
Corrosiveness	negative
VOC’s after 30 days aging	none detectable

**Flammability Characteristics**

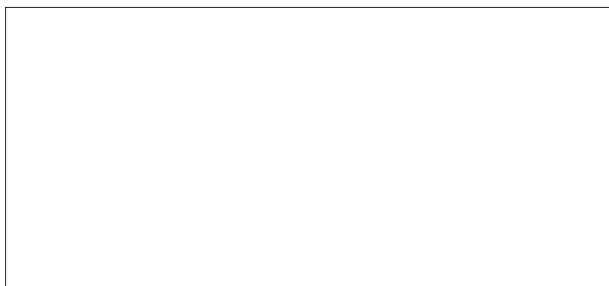
Flame spread ASTM E84	<20
Smoke developed	<350
Fuel contribution	zero
Oxygen index	23

**Physical Properties**

Density	0.5lb/cf
Thermal Resistance	R-3.66/in
Heat flow reduction through 1”	72.7%
Heat flow reduction through 3.5”	92.2%
Heat flow reduction through 5.5”	95.0%
Heat flow reduction through 10”	97.3%
Air Permeance - 5”	1.0 l/sM <sup>2</sup> @75pa
Vapor Permeance - 5”	10 perms
Sound Transmission Class*	37
Noise Reduction Coefficient*	70

\*2x4 wall with 1/2” gypsum both sides

This is a summary of the product specification. Please ask for and read the full product specification before using.



For more information, or the name of your local Icynene Contractor call toll free, **1-800-946-7325**.



**The Icynene Insulation System.**

Sooner or later every home will have it.

Check us out on the internet: [www.icynene.on.ca](http://www.icynene.on.ca)

# How To Insulate An Old House.



**The Icynene Insulation System.**

Sooner or later every home will have it.

# A Few Important Points To Consider.

Icynene is injected into walls through small, 1 inch holes. It fills the wall cavity completely, starting at the bottom and expanding upwards to sixty times its liquid volume. In other words, one inch of liquid will expand to fill a cavity up to five feet. And because the foam expands in the direction of least resistance, upwards, you can be assured it will not expand outward and damage the wall. Nor will Icynene settle, shrink or allow air infiltration into the cavity.

Icynene also provides an air seal which virtually eliminates humid air entering into the wall cavity and condensing.

## What About Brick, Rough Stone Or Masonry Walls?

Brick or stone homes often have only an inch or so of space between the plaster and masonry. There is little space for a lot of insulation, but even one inch can reduce heat flow by 75% and make a major improvement in air leakage. If you wish more insulation, the plaster must be removed and a



framed wall erected one inch from the old masonry wall. Icynene can then be sprayed onto the masonry surface, sealing it from air leaks. The foam expands behind the new studs creating a thermal break.

## Bay Windows, Dormers And Window Frames.

Bay windows and dormers are architectural features which present potential paths for air infiltration. Standard windows pose similar problems due to air leakage around the casement. However, because Icynene expands to fill the surrounding cavity, you can eliminate virtually any air leaks.



The Icynene Insulation System is the complete answer for insulating floors because it's self-supporting. Installed from below, it adheres to the flooring, leaving no gaps for cold air to circulate underneath.

This makes it the perfect solution for cantilevered floors, floors over a garage and crawl spaces.

## Should I Use It For My Basement And Crawl Space?

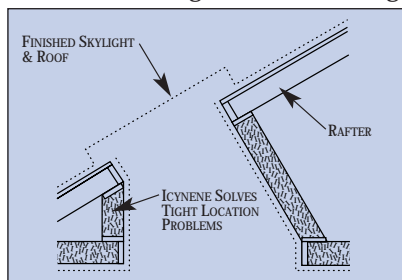
Prior to insulating, you must first decide whether to have a hot or cold basement or crawl space. In other words, what's the room's intended purpose? In the cold basement you'll want to insulate the ceiling, taking care to box any water, drain lines or duct work so they can be sprayed. In a hot basement, frame walls will need to be constructed, similar to those needed for extra insulation in the upper floors.



Ceilings in older homes are usually insulated due to their easy accessibility. Either batts or blown insulation are commonplace materials. Of course this is an improvement, but it fails to eliminate air movement between the living space and the attic. Air leaks often occur through electrical and plumbing penetrations, chimneys and around pot lights. Icynene can be used to seal these.

## I'm Thinking Of Installing Skylights.

Skylights are an attractive addition but they create a need for insulation. Building a skylight usually requires building a well between the ceiling and roof. Insulating this space would be

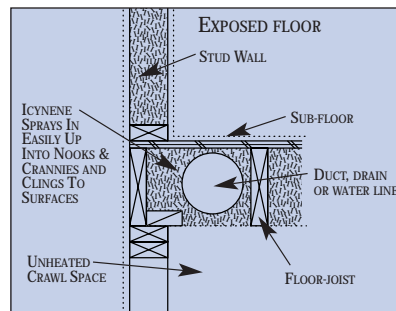


difficult with conventional materials. With Icynene, the attic-side surface of the well can be sprayed. The foam insulation will remain in position for the life of the

house. Icynene will also seal and insulate the space where the well passes between the ceiling joists.

## Can Icynene Insulate Ductwork?

In hot climates it is common to find air ducts in the attic. In cold climates, they often run under the floor. Yet both systems share the same problems.

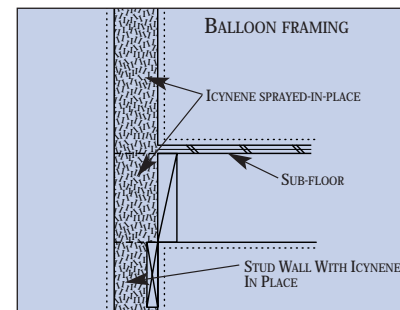


First, the ductwork is located where it is exposed to extreme temperatures. Secondly, ductwork is notoriously leaky. By spraying Icynene

over the ductwork, you can seal it against leakage **and** insulate it from extreme temperatures. This will reduce heat gain or heat loss, in the conditioned air which is being distributed and protect the return air from those temperature extremes.

## Are Joist Ends A Concern?

Joist ends are a prime source of air leakage. This air flow is often felt as a draft under baseboards. Access to these



uninsulated spaces between floors is gained by drilling 1 inch holes either through the floor under the baseboard, or through the ceiling of the room below.

Icynene is then injected, expanding to seal air flow between joists for the width of the house.