

## More Energy Efficient

### Key Contributions of Icynene

- Ready for the *Green Deal* and much more ...
- Energy efficiency (for reduced greenhouse gas emissions)
- Healthier indoor environments
- Sustainability and durability

### Sustainability through Air-Sealing

Most insulation types deliver conductivity performance measured by their R value. A good R value is useful **but not sufficient** to ensure excellent energy performance. Air tightness and reduced "thermal bridges" are also necessary to limit waste in energy and money.

Icynene is perfect for protecting against air leakage. **Icynene insulation can provide up to 50% energy savings, and reduce carbon dioxide emissions by thousands of tons per year.** The related monetary savings can exceed the insulation price in just 3 to 4 years on average.

This energy-saving air seal also keeps out airborne pollutants, noise, allergens and moisture, providing healthier indoor air and helping to prevent condensation and mold.

Icynene is sprayed in liquid form and expands 100 times its original volume, thus ensuring continuity of the insulation and filling up all cavities to reduce thermal bridges (cold spots). Icynene light foam stays flexible and follows all movements of the building structure without cracking over time.

Once installed, Icynene spray foam insulation works for the life of the home. No wonder why we are the world leader in healthy open cell foam insulation.



## Reduce Your Carbon Footprint

Building owners are increasingly aware that the right building product choices can have positive health implications to them and the natural environment. For over a quarter of a century Icynene has provided innovative solutions for a healthier environment. Compared to other insulation material Icynene has the lowest carbon footprint in the world for transportation.

Icynene. Facilitating the blueprint while reducing its footprint.

## Long-Term Comfort

The right insulation is an investment that pays for itself in significant energy savings. It's an investment that you will rarely see, but will feel the effects every day. Why not choose the peace of mind that comes with a More Energy Efficient®, Healthier, Quieter indoor environment.



# ICYNENE®

Icynene is available in the UK and Ireland. For more information, contact your local contractor.



For more information visit [icynene.co.uk](http://icynene.co.uk) or [www.icynene.com](http://www.icynene.com)  
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THE ICYNENE®  
INSULATION SYSTEM

**More Energy Efficient** for superior energy savings  
**Healthier** indoor air quality  
**Quieter** living environment

## Why Icynene?



# ICYNENE®



High performance spray foam solutions



MADE IN CANADA





Icynene insulation and air barrier products can be sprayed or injected into walls, ceilings, floors, and crawlspaces to deliver superior insulating and air-sealing results. It is ideal for wood or steel frame, brick and concrete constructions. Contrary to most insulation products, Icynene never collapses with time since it is extremely light and strongly adheres to the substrate. It does not degrade over time. Icynene is "tailor made" to the building structure, it is directly sprayed onto the walls, under the roofs where the foam quickly expands, reducing cold spots and blocking air infiltration.

## The Icynene Insulation System

Icynene was developed over 25 years ago, is one of the most well known brands of insulation in North America and is available in 34 countries around the world.

Icynene spray foam insulation features the following benefits:

- Made in Canada
- Provides superior air tightness
- Brings drastic energy savings; pays for itself in a very short period of time
- Certified, eligible for government grants, loans and tax incentives where applicable
- Perfect for both renovation work and new constructions
- 25-year limited warranty
- Verified as an air barrier material



## Healthier

- Icynene contains 99% pure air and no pollutant or hazardous substances, independently tested per ISO 16000-9.
- Icynene is recommended by AMICA, the European Association for the Environmental and Chronic Toxic Injury.

## Indoor Environmental Quality (IEQ)

Buildings that minimize indoor air pollution promote health, comfort, and productivity.

Icynene insulation and air barrier products support a project's IEQ goals by minimising the causes of unhealthy buildings. Icynene delivers a continuous thermal barrier that seals around plumbing, vents and electrical openings as well as other cracks and voids that allow unwanted air leakage. Icynene minimises the entry of airborne irritants such as allergens, drafts, or humidity.

Combined with proper mechanical ventilation, Icynene products allow occupants to control the quality of the indoor air they breathe.

## Moisture Management

Icynene insulation delivers advanced moisture management by forming an air seal to minimise air movement. By minimising air transported moisture through the building envelope, Icynene helps to prevent condensation and the resulting potential for mould growth within walls and ceilings.

Icynene Light Density Foam (LD-C-50®), have open-celled structure allowing them to dry and remain unaffected by minor wetting so they can continue to operate at peak performance levels. This open-cell technology helps in the identification and diagnosis of leaks and in protecting roof decks from sustained wetting/ conditions that can lead to rot. It is also helpful in drying moisture trapped in adjoining materials. Wood framing and fresh concrete, for example, can have vast amounts of moisture trapped in their pores. An insulation such as LD-C-50® allows these materials to dry over time helping to minimize the potential for damage.

## Sustainability through Innovative Insulation Foam Spray Formulas

Many spray foam insulation products use HFCs (hydrofluorocarbons) as blowing agents and contain PBDEs (polybrominated diphenylethers) for fire resistance. The problem is, HFCs have a high global warming potential (GWP), and PBDEs can be toxic to both humans and the environment. All Icynene spray foam insulation products are PBDE-free, and several are also HFC-free. In fact, ICYNENE LD-C-50® is 100% water-blown (with no synthetic blowing agents).



## Quieter

Icynene significantly minimizes unwanted airborne sounds that can invade living spaces, creating a much more enjoyable indoor environment. Icynene helps to reduce noise levels that originate from the other side of the wall (from home theatres and children's play areas for instance). When Icynene is sprayed into walls, ceilings and floors, building occupants are uninterrupted by airbourne sounds (human speech, stereos, and plumbing runs) and flanking sound (sound transmitted through the building structure). Icynene ensures a haven of peace and quiet by completely filling and sealing every penetration such as cracks around doors, electrical outlets, and plumbing pipes within walls.



Walls  
Ceilings  
Floors  
Crawlspaces