ICYNENE® High performance spray foam insulation solutions

Save with Icynene Inside

Incremental NET Savings with Icynene Insulation

Cost to Install the Icynene Insulation System®:		$ 4,500	
subtract:	the price to insulate with fiberous material	1,800	
subtract:	the savings from HVAC right-sizing due to Icynene	500	
subtract:	cost of air sealing, Lesco boxes, extra caulk/tape, etc	400	
	Incremental net cost increase	**$ 1,800**	[a]
Savings Generated:			
	cost to heat and cool the home per year with fiberglass	1,977	
subtract:	cost to heat and cool the home per year with Icynene	1,248	
	savings per year using Icynene	729	
	Savings per month	**$ 61**	[b]
Cost to home buyer of financing the Icynene upgrade			
Example:	Rate: 4%		
	Term: 30 yrs.		
Cost to finance per month	$1,800 from [a]	$ 9	[c]
Monthly Savings due to Icynene Insulation [b-c]		$ 52	
Yearly Savings due to Icynene Insulation			

Yes, Icynene Costs More to Install, however...

Start Saving on Energy Costs Every Month

Total Annual Savings
$ 624

Healthier, Quieter and More Energy Efficient Home

With Icynene spray foam insulation upgrade

FAQ

Traditional insulation works similar to a wool sweater on a winter day. It keeps you warm if the air is calm, but if the wind picks up, you are going to need a windbreaker jacket to keep the breeze from carrying away the heat. Icynene performs like windbreaker material.

1 What is spray foam insulation?

Spray foam insulation is a method of insulating and air-sealing using a spray application. The foam sprays on as a liquid and then quickly expands to fill and seal the cavity or surface. As it expands, it seeps into all the nooks and crannies to form a continuous air barrier, keeping you cooler in the summer and warmer in the winter.

2 What makes Icynene† spray foam better than traditional types of insulation such as fiberglass?

Icynene insulates and air-seals in one step to control unwanted random air leakage – which traditional cellulose and fiberglass insulation can't do without the use of extra sealing materials. Traditional insulations can also leave gaps and seams around electrical boxes or light fixtures (compromising performance), but Icynene fits perfectly around all detailing for a complete air-seal. The result is a healthier and more efficient home.

3 What is the R-value of Icynene spray foam insulation?

Icynene has an R-value of 3.7 per inch. But this only tells you half the story because R-value doesn't consider air movement through or around the insulation once it's been installed in your home. And air movement can be your biggest source of energy loss. You need an insulation that does 2 things: insulates **and** creates an air-seal. Since Icynene is an air barrier, it reduces energy loss and also helps prevent condensation-related problems like mold or mildew within the walls and ceilings. Without the air barrier, insulating your home isn't really that effective.

4 Can Icynene insulation improve indoor air quality and comfort?

Icynene seals tiny cracks and penetrations that would otherwise allow unwanted airborne irritants to invade the living space. Home occupants are protected from outdoor allergens, pollutants, and humidity. Icynene makes it easy to get a tight fit around wall openings, such as windows, electrical/cable service entry points, and light fixtures.

Icynene's 100% water-blown spray foam makes it an even healthier option for homeowners. Icynene is recommended for spaces occupied by people with allergies, asthma and other particular respiratory issues. In fact, Icynene was used to improve indoor air quality as part of the American Lung Association's "Health House" program.

5 Can Icynene insulation help control moisture build-up?

Most of the damaging moisture within a building envelope is the result of air movement through the cavities. When warm air meets a cold surface within a cavity, it condenses; and if not found in time, it can lead to mold and rot.

Icynene creates continuously insulated, tight walls and ceilings – exactly the leak-free building envelope that is needed to minimize the potential for moisture, condensation and mold. Icynene has been tested and proven not to be a food source for mold.

† In this brochure Icynene refers to Icynene's light density insulation product.

6 Can Icynene help address any other issues?

Noise Reduction – Just as Icynene seals against the transfer of air and accompanying moisture, it also helps reduce the transfer of noise. Thanks to the sound-dampening qualities of Icynene insulation, problems and annoyances related to "thin walls" can be easily turned into greater privacy.

Water Intrusion – In the event of a water leak, Icynene offers superior breathability which allows the material to dry and remain unaffected by minor wetting. Icynene continues to operate at peak performance levels once dried. This can help protect the building envelope from sustained wetting or conditions that can lead to rot.

Access/Repair Electrical or Plumbing – Icynene spray foam can be easily cut away and removed to access plumbing or electrical wiring. If a plumbing leak were to get the product wet, leaving the wall cavity open temporarily would allow it to dry and eliminate the need for total replacement. Icynene's touch-up kit is available to recreate the air-seal.

7 Is there an odor? If so, should I be concerned?

There are no blowing agents such as CFC's (chlorofluorocarbons) or HCFC's (Hydrochlorofluorocarbons) in Icynene's light density products. Spray foam insulation is produced by mixing 2 components at a high temperature, which causes the foam to atomize during installation. This process creates an odor and requires venting. As soon as the foam "cures" (or sets), which occurs within seconds, it no longer produces the odor. It usually takes about 24 hours for the odor to completely dissipate.

8 Can I make my house too airtight?

The answer is, you have to build tight and ventilate right. With the proper use of exhaust fans and heat/energy recovery ventilators, a building envelope can be made tight while clean, healthy air is circulated through the structure. Air leakage needs to be controlled in houses by making wall and attic assemblies as tight as possible. This not only prevents drafts but reduces the amount of airborne noise and dust from entering the building while ensuring that insulated cavities remain moisture-free.

9 Has Icynene spray foam been tested for fire safety?

Rest assured that Icynene meets code requirements relating to fire safety. Icynene spray foam is a Class 1 material with a flame spread of less than or equal to 25. Independent third-party testing also confirms that electrical wiring is not affected by Icynene. Dangers of overheating were not found to be a concern during testing.

10 How long will the foam last?

Indefinitely. When correctly installed and not altered with, the foam will last the life of your building. Spray foam insulation adheres extremely well to virtually all substrates. Icynene's light density products remain soft and flexible to expand and contract with your home, outperforming all other types of insulation.

11 More Questions?

Please visit online at www.icynene.com or call 800-758-7325

FACT:
Icynene's licensed installers wear suits and masks when applying product.

Yes, it's true. Icynene licensed installers wear protective gear, much like professional painters, to protect themselves from 'overspray' (small particles of material that become airborne during application) and to aid in breathing while working in confined spaces.

Icynene Performance Advantages

Icynene:

- Reduces the risk of replacing HVAC equipment due to short cycling
- Eliminates the need to replace worn or damaged insulation
- Eliminates cooling time for air flow in duct work
- Reduces potential for mold growth in your home
- Provides sound resistance near highways, airports, etc.
- Reduces random air leaks and limits the penetration of outdoor allergen and pollutants leading to better indoor air quality
- Can reduce utility bills by 40% - 50% monthly

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