
MFG. BY LAPOLLA
FOAM-LOK™
SPRAY FOAM INSULATION
Lock In Energy Savings For Life

AN ENVIRONMENTALLY FRIENDLY HOME IS A GREAT BENEFIT FOR YOU, YOUR FAMILY AND THE ENVIRONMENT. TAKE AN ACTIVE ROLE IN HELPING REDUCE GREENHOUSE GASES, THUS SLOWING THE EFFECTS OF GLOBAL WARMING. BY PROPERLY SEALING YOUR HOME YOU REDUCE THE AMOUNT OF OIL THAT IS NEEDED TO PRODUCE ELECTRICITY AND THE CARBON EMITTED INTO THE ENVIRONMENT.

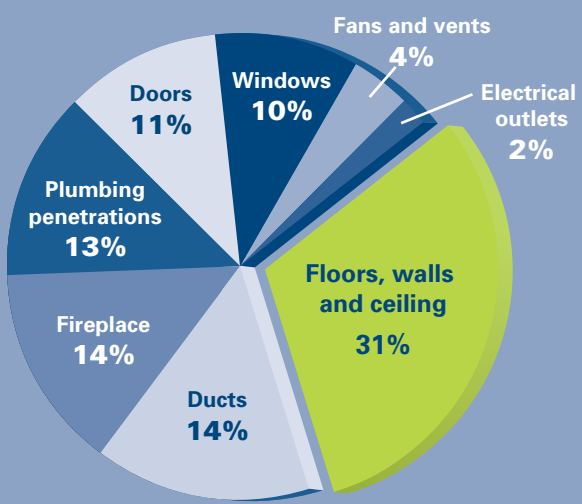
In 2004, 40% of all U.S. total emissions of greenhouse gases was from electricity generation, and 35% of this was from residential use.

Source: http://epa.gov/climatechange/

U.S. GREEN BUILDING COUNCIL MEMBER

ENERGY STAR PARTNER

Areas of Air Movement



Source: Department of Energy: www.eere.energy.gov/consumer/tips/air_leaks.html

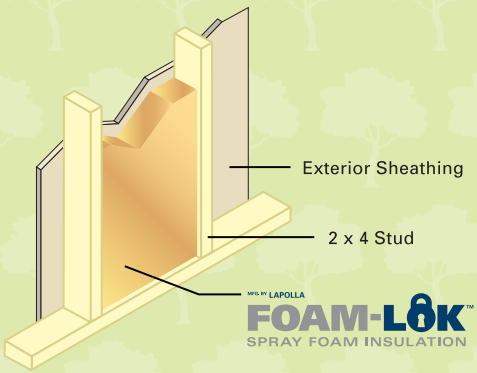
Maximize Your Investment

Air moves in and out of a home through every hole, crack, and crevice. The Department of Energy reports that heating and cooling (space conditioning) account for approximately 56% of the energy used in the typical American home. Roughly one third of air infiltrates through walls, ceiling, and floors.

Adding an advanced insulation system is necessary to achieve optimal building performance. Foam-LOK™ spray polyurethane foam is that advanced insulation system. Spray foam insulation maximizes a home buyer's investment by sealing the building envelope to stop conditioned indoor air from escaping and prevent unconditioned air from entering a home. Air exchange in and out of a home is a leading cause of escalating energy bills. The mechanical systems that heat and cool buildings are continuously operating; reducing extreme temperature variations saves on the overuse of mechanical systems and leads to lower energy bills.

Maintain Moisture Management

In addition to energy consumption, air infiltration and exfiltration, within a home, contributes to almost 99% of moisture migration.



Critical Requirements for Mold Growth

- Available mold spores
- Available food for mold spores
- Appropriate temperatures
- Considerable **moisture**

Restricting air movement stops moisture accumulation so that the possibility of mold growth is less likely to occur. Combined with a properly sized HVAC system, Foam-LOK™ spray foam insulation helps stabilize the indoor humidity levels to minimize moisture and condensation. Reducing moisture and controlling humidity can also add years to the life expectancy of a home, plus contribute to a healthier indoor environment.

Compare Insulation Materials — The Differences Contribute to the Bottom Line

There are important differences to note between spray foam insulation systems and traditional insulation materials. The primary feature is that spray foam does not sag, settle, or shrink over time. Spray foam insulation is spray applied to fill cavities of any shape providing a continuous air barrier and it stays in place.

Because **traditional** insulation does not directly adhere to the substrate, the chance of the insulation material sagging overtime is high. If traditional insulation is not properly installed around irregular framing areas or it shrinks in the wall cavity, voids of 1-2% can lower the effective R-value of traditional insulation materials by 25-40%.

Insulation Energy Cost & HVAC Size Comparison

EAST COAST Atlantic City, NJ

Seasonal Climate – 2,400 s.f. home, facing East

Average Heating and Cooling Costs per Month

	Fiberglass vs. Closed-Cell Insulation		Fiberglass vs. Open-Cell Insulation
Fiberglass Insulated Home	$327	Fiberglass Insulated Home	$327
Foam-LOK Home with **Closed Cell** Foam Insulation	$86	Foam-LOK Home with **Open Cell** Foam Insulation	$122
Net Mo. Savings	**$241**	**Net Mo. Savings**	**$205**
HVAC Size Requirements	Foam-LOK CC Closed-cell foam insulated Home	Foam-LOK OC Open-cell foam insulated Home	Fiberglass Insulated Home
	3 Ton	**3.5 Ton**	**5 Ton**

ROCKY MOUNTAINS Breckenridge, CO

Higher Altitude, Colder Climate – 2,400 s.f. home, facing North

Average Heating and Cooling Costs per Month

	Fiberglass vs. Closed-Cell Insulation		Fiberglass vs. Open-Cell Insulation
Fiberglass Insulated Home	$477	Fiberglass Insulated Home	$477
Foam-LOK Home with **Closed Cell** Foam Insulation	$118	Foam-LOK Home with **Open Cell** Foam Insulation	$186
Net Mo. Savings	**$359**	**Net Mo. Savings**	**$291**
HVAC Size Requirements	Foam-LOK CC Closed-cell foam insulated Home	Foam-LOKOC Open-cell foam insulated Home	Fiberglass Insulated Home
	2.5 Ton	**2.5 Ton**	**5 Ton**

GULF COAST Baton Rouge, LA

High Humidity – 2,400 s.f. home, facing South

Average Heating and Cooling Costs per Month

	Fiberglass vs. Closed-Cell Insulation		Fiberglass vs. Open-Cell Insulation
Fiberglass Insulated Home	$131	Fiberglass Insulated Home	$131
Foam-LOK Home with **Closed Cell** Foam Insulation	$57	Foam-LOK Home with **Open Cell** Foam Insulation	$72
Net Mo. Savings	**$74**	**Net Mo. Savings**	**$59**
HVAC Size Requirements	Foam-LOK CC Closed-cell foam insulated Home	Foam-LOK OC Open-cell foam insulated Home	Fiberglass Insulated Home
	3 Ton	**3.5 Ton**	**5 Ton**

WEST COAST San Francisco, CA

Seasonal Climate – 2,400 s.f. home, facing South

Average Heating and Cooling Costs per Month

	Fiberglass vs. Closed-Cell Insulation		Fiberglass vs. Open-Cell Insulation
Fiberglass Insulated Home	$200	Fiberglass Insulated Home	$200
Foam-LOK Home with **Closed Cell** Foam Insulation	$53	Foam-LOK Home with **Open Cell** Foam Insulation	$77
Net Mo. Savings	**$147**	**Net Mo. Savings**	**$123**
HVAC Size Requirements	Foam-LOK CC Closed-cell foam insulated Home	Foam-LOK OC Open-cell foam insulated Home	Fiberglass Insulated Home
	2 Ton	**2 Ton**	**5 Ton**

Information is based on:
- R-38 attic insulation (unvented for foam insulation applications)
- Double-pane, Low-E aluminum windows
- R-13 fiberglass exterior, common and knee wall
- Metal poly-core doors
- R-6 flex duct located in attic area
- R-19 sloped and vaulted areas
- R-19 for under floor areas (crawl spaces and cantilevered areas)
- Caulking that includes windows, doors, sill plates, plumbing and electrical penetrations

Energy evaluations performed by Mechanical Engineer using proprietary software on 10/28/08. Energy cost savings are estimated not guaranteed and subject to construction and energy cost variables.

By combining proper equipment maintenance and upgrades with appropriate insulation, air sealing, and thermostat settings, you can cut your energy use for heating and cooling, and reduce environmental emissions, from 20% to 50%.

Source: www1.eere.energy.gov/consumer/tips/heating_cooling.html

Builder Benefits

Insulation should add value to energy savings, sustainability, air quality, safety, durability, and comfort. The economic value of spray foam insulation lasts over the lifetime of a building to maintain the environmental needs of future generations.

Simplified Construction: Installing spray foam in between the studs will meet most R-value, air barrier, and water vapor retarder requirements.

HVAC Equipment Cost Saving: Tightening the building envelope can lead to energy savings of up to 50% and may also allow cost reductions from smaller HVAC systems. Moving the attic thermal boundary to the underside of the roof deck creates a conditioned space for HVAC units and ductwork to operate more efficiently.

Flexibility in Framing: High aged R-value of over 6 per inch, permits stud and rafter size reduction to increase living space.

Enhanced Durability: Wall racking strength is up to three times stronger than conventional insulation in framed walls.

Approved Applicators: Foam-LOK applicators invest in materials that have multiple characteristics in one finished product, allowing builders to confirm several requirements at one time.

About Foam-LOK Approved Applicators

Foam-LOK approved applicators promote and install better building solutions. Solutions that are achieved through the application of spray foam insulation. They are committed to the highest quality installation standards, and demonstrate an aptitude of understanding building science. They value a collaborative approach to build and deliver safe, durable, and energy-efficient homes.

Here's How to Get Started.

Home Buyer/Builder

To learn about Foam-LOK spray foam insulation or find a Foam-LOK approved applicator, visit: **www.lapolla.com** or call **(888) 4-LAPOLLA.**

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SPRAY FOAM INSULATION

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