



5 W's of Spray Foam Insulation



Who | What | Where | When | Why

Who Needs Spray Foam Insulation?

Home Owners: Spray foam insulation can maximize a homeowner'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 escalated energy bills.

Agricultural & Livestock Barns and Facilities (Metal Buildings) have 3 reasons why they are looking to insulate their buildings. ●**Temperature Control:** Open-cell spray foam forms an airtight barrier that keeps the climate of your dairy barn, hog pen, poultry house or other livestock areas constant. This includes humidity levels as well as air temperature. ●**Moisture Control** Closed-cell spray foam is a more dense insulation that is completely impervious to water. This watertight seal keeps your grains dry, eliminating expensive mold and rot damage. ●**Pest Control:** Spray polyurethane foam barn insulation seals cracks, crevices and other openings that rodents and insects have been using to invade your barn. SPF is not a food source for rodents either! SPF insulation can also be disinfected in cases of biosecurity.

Commercial & Industrial: SPF insulation is widely used in industrial and commercial settings, in structures such as: factories, cold storage warehouses, warehouses, exhibition halls, showrooms, football stadiums, offices, industrial units, shops, municipal/charitable/ religious buildings and on government projects. It provides the ideal, cost effective solution for insulation and condensation problems and can be applied to virtually any surface. It improves the working environment and reduces fuel costs, and can also be used for asbestos encapsulation in older buildings.

What is Spray Foam Insulation?

SPF insulation is a spray-applied two-component mixture (composed of isocyanate and polyol resin) that forms expanding foam as it is sprayed onto approved surfaces. This type of spray applied insulation is widely used to insulate buildings and seal cracks & gaps, making the building more energy-efficient and comfortable.

SPF insulation can be categorized into two different types: light-density open-cell spray foam insulation (commonly used in residential applications) and medium-density closed-cell spray foam insulation (widely used in basements, metal structures & other structures where condensation is a concern). SPF professionals will be able to determine which SPF density is appropriate for your needs.

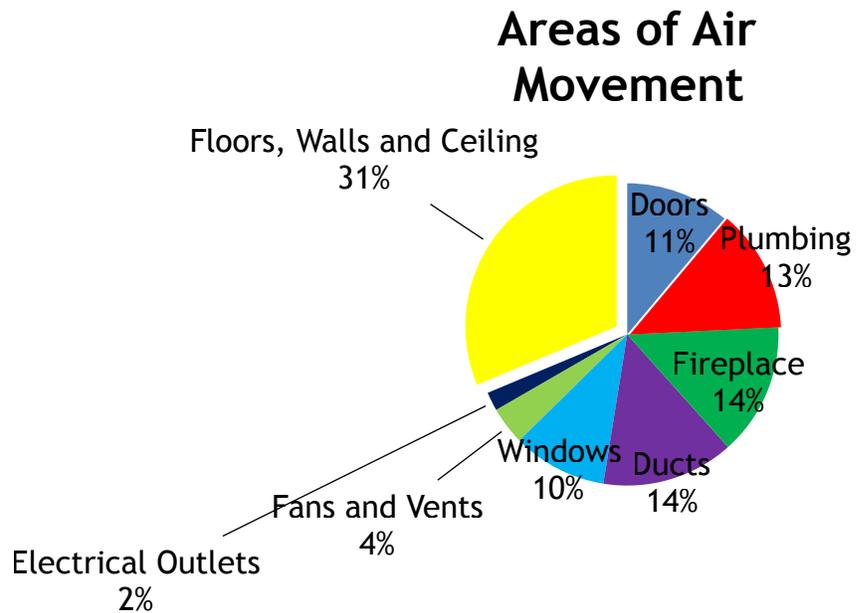
SPF insulation outperforms cellulose and fiberglass insulations. These other types of insulation allow air to flow freely through and have a lower R-value. (As defined by Department of Energy: R-value is a measure of resistance to heat flow through a given



thickness of material. As there is a rise in R-Value, there will be greater the resistance.)

Where is Spray Foam Installed?

- SPF insulation should be installed in the areas where air moves through your home to the outside and vice versa. Please see the graph.
- SPF insulation can be used in any structure that requires insulation.
- SPF insulation can also be used in buildings that do not have HVAC systems but need to reduce the heat from the sun or the cold from the winter months.
- SPF insulation is used in residential, agricultural & livestock facilities and commercial & industrial structures.
- SPF insulation can be used in existing structures. Old insulation can be removed and SPF insulation installed in its place.



When to install Spray Foam Insulation (SPF)?

NOW!

Anytime is a good time. SPF Insulation can be installed year round.
There are few exceptions to extreme temperatures.

Why use Spray Foam Insulation (SPF)?

- Energy savings up to 45%, by reducing heating & cooling costs
- SPF is permanent. It will not sag, pack-down, split apart, or turn black and discolored with mold/age.
- Does not emit hazardous chemicals.
- Indoor air quality is improved by reducing allergens and pollutants by air infiltration through gaps and cracks.
- SPF reduces drafts by sealing gaps and cracks.
- SPF adds protection against mold and mold growth by providing a moisture barrier

- SPF aides in animal and pest control by sealing gaps and cracks
- SPF adds structural reinforcement, strength, and impact resistant
- HVAC capacity requirements & maintenance are reduced.
- SPF insulation is a vapor barrier by reducing moisture infiltration
- SPF is not easily damaged by water or floods (Closed Cell).
- Noise reduction (soundproofing) for both airborne noise & structure-borne noise (Open Cell)
- Homeowners, builders and architects may be able to qualify for tax incentives, rebates, grants or certifications

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