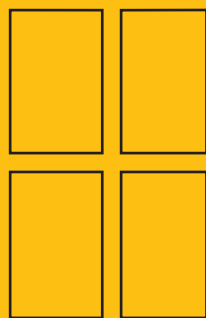
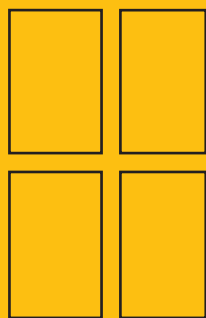
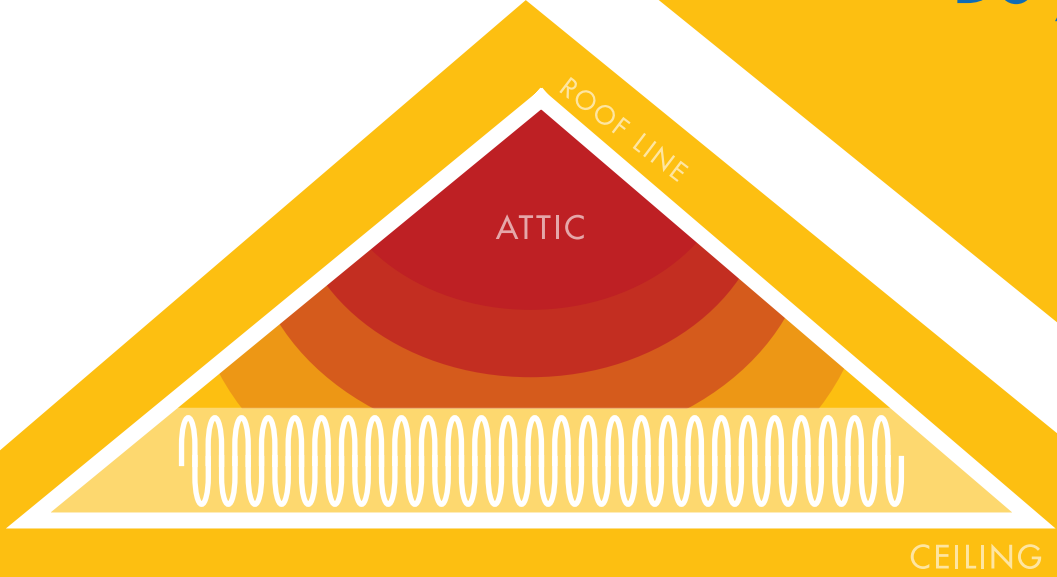


What's under your roof?

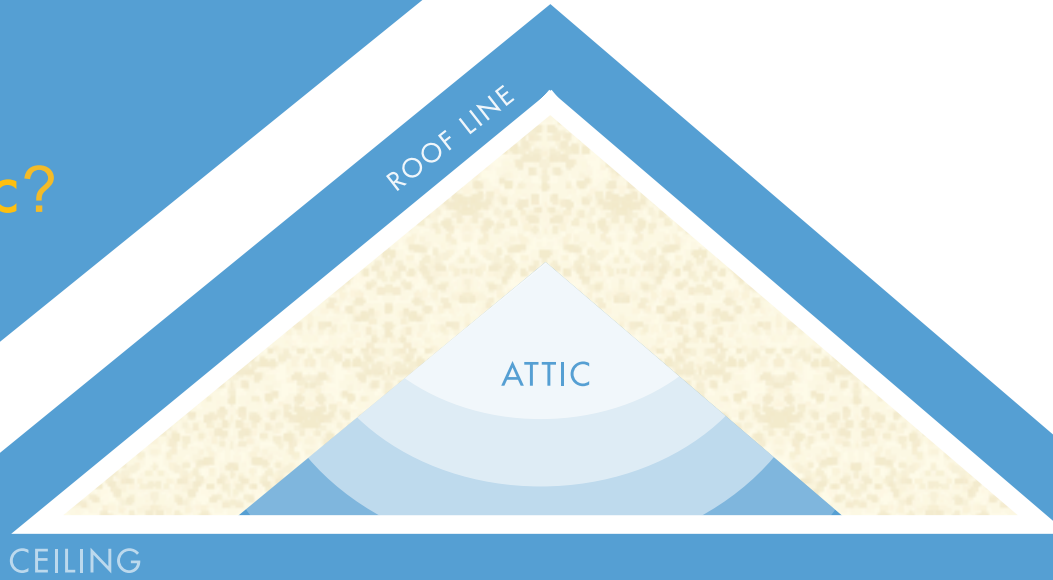


Do you want
Hot Box



or Cool Closed Attic?

Smart Choice for
Smart Minds!



DEMILEC
(USA) LLC.®

 **SEALECTION® 500**
SPRAY FOAM INSULATION

WHY SEALECTION® 500

- It reduces sensible and latent heat loads.
- It eliminates air infiltration: preventing 90% of moisture intrusion, 40% of energy loss and mold growth.
- It reduces damage from wind-driven rain.
- It eliminates condensation on ducts.
- It cuts utility bills substantially.



Not all insulations are created equal!

SEALECTION® 500 is a spray applied polyurethane foam which seals cracks, gaps and voids by expanding 120 times its volume into a semi rigid insulation and air seal. The combination of the water blown expanding foam with the inherent adhesive property of the polyurethane plastic sets this insulation apart from the others.

High air permeability of traditional insulations allows air to easily pass through walls where the gaps and seams exist. Temperature differences between the inside and outside of buildings create convection air currents within the wall cavities. Air infiltrations and convection currents in the walls and ceiling is what reduces the thermal performance of traditional insulations.

Use **SEALECTION® 500** spray foam insulation to seal out the air infiltration and stop convection currents within the insulation for more energy efficient, healthy and sustainable buildings.

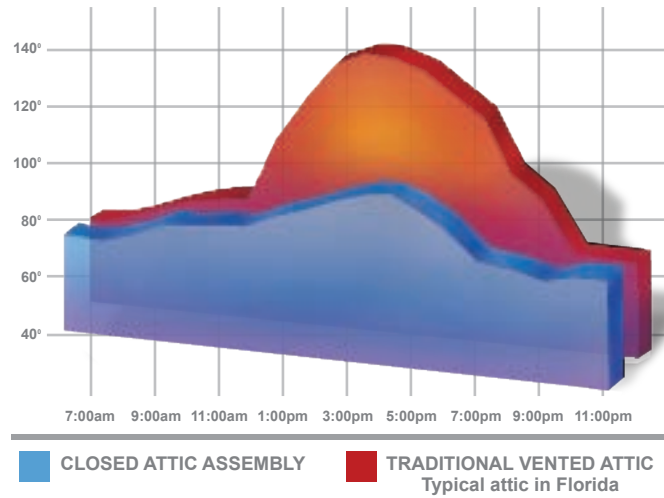


Installation made easy.

Spraying **SEALECTION® 500** to the underside of the roof deck makes the installation of a continuous air barrier simple and cost effective. This is generally done as soon as the roof is up. The installation of the HVAC mechanicals and interior walls is constructed after the spraying of the foam.

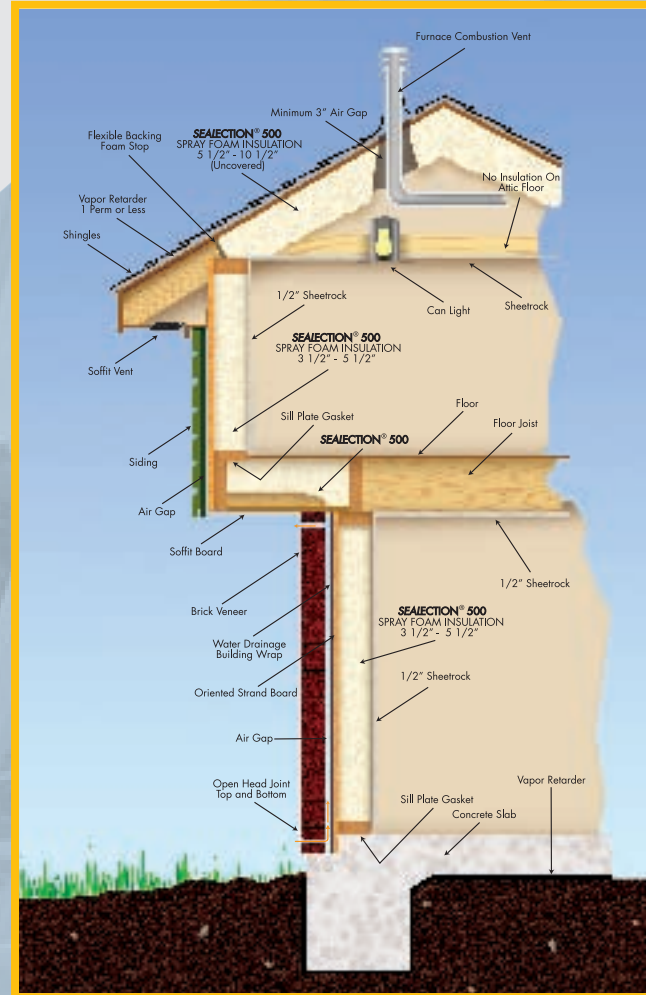
THE FACTS

ATTIC TEMPERATURE



THE DEBATE: TO VENT OR NOT TO VENT

Converting attics into a semi-conditioned space in hot climates by closing soffits, gable and ridge vents is a positive design approach in reducing the moisture loads in houses and buildings. This can be achieved by moving the insulation from the floor of the attic and applying **SEALECTION® 500** to the underside of the roof deck to seal all the vents. This design prevents the moisture laden outside air from entering the attic and subsequently into the houses and buildings.



TEST YOUR ATTIC IQ.

1. Air movement through a vented attic reduces the cooling load.

FALSE. In vented attics radiant heat from the roof deck increases the attic air temperature substantially.

2. Venting attics removes moisture.

FALSE. In hot humid climates the best way to prevent moisture condensation is to prevent moisture altogether by sealing the attic from outside temperatures.

3. Closed attics are more cost-effective and energy efficient than vented attics.

TRUE. Closed attics really are the smarter choice!



Ventilation in southern climates can be a major cause of humidity problems. The problem of condensation in attics, especially in hot-humid climates, is caused by humid outdoor air coming in contact with cold surfaces in the attic. Most offending cold surfaces are usually supply ducts, but can also be ceiling drywall and metallic penetrations through the ceiling if low interior set points are maintained. The attic air dew point can be higher than the outdoor air dew point because moisture stored in the wood roof framing structures at night is released during the day.

The greatest problem with attic condensation will occur during the daytime when the air conditioning system operates for long periods, causing supply ducts, supply diffusers, and ceiling areas near supply diffusers to remain cold.

BUILDING CODES



To help improve building performances during hurricanes, the Florida Hurricane Advisory Committee has changed building codes to support the use of unvented attics. Why? Because during Hurricane Charlie, wind-driven rain through soffits and gable vents was the second highest cause of property damage in the area (FEMA Research Study 490).

In October 2005, the ICC adopted unvented attic assembly for the 2006 IRC building code based on the conclusion that using low air permeable insulation on the underside of a roof deck is a positive way to improve building performance.

R806.4 Conditioned attic assemblies:

Unvented conditioned attic assemblies (spaces between the ceiling joists of the top story and the roof rafters) are permitted under the following conditions:

1. No interior vapor retarders are installed on the ceiling side (attic floor) of the unvented attic assembly.
2. An air-impermeable insulation is applied in direct contact to the underside/interior of the structural roof deck. "Air-impermeable" shall be defined by ASTM E283.

*For the completed section please visit our website.
www.DemilecUSA.com*

SELECTION® 500 applied directly to the roof deck creates a tight bond between the roof sheathing and the roof joist structure while increasing the home's overall energy efficiency.

1-877-DEMILEC

Quality Assurance Installation

To give builders and building owners the best results possible, **SEALECTION® 500** is applied by Authorized Contractors using Approved Applicators and specialized equipment. Under the InSEAL-Right in-field Quality Assurance Program (QAP), installation ensures minimal energy consumption and moisture flow.

The InSEAL-Right Quality Assurance Program is an accountability of the Authorized Contractors and Approved Applicators in having the job done right every time.

*Build a house full of benefits with **SEALECTION® 500***

- Increase energy efficiency
- Improve indoor air quality
- Eliminate air movement through walls
- Control and reduce noise
- Reduce damage of wind-driven rain
- Use non-toxic formula that is Building code certified.



Changing One Attic At A Time!



SEALECTION® 500

Smart Choice for Smart Minds!



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