

residential program

Developing a better system

APEX GreenSeal Program

by Apex Building Company

Exterior & Sound Walls: JM SPIDER

JM Spider Sprayed Insulation has Sound Transmission Class (STC) of 43 in a standard 2x4 wall making it the perfect option for sound walls. The custom insulation is comprised of EPA-registered mold inhibitors to protect the insulation from mold growth. In addition, the JM Spider product sprays on with less moisture content than dry wood framing. The adhesive dries in 2-8 hrs.

Spider insulation can achieve an R-5 in 2x4 wall and R-23 in 2x6 wall. The system uses recycled, formaldehyde-free fiberglass. JM Spider reaches the highest thermal performance versus all other standard insulation systems installed today.

Conditioned Attics: Open Cell Spray Foam

Spray foam has long been recognized as the premium choice for insulation and air barriers for residential and commercial construction developed in Canada for harsh winters. Spray foam is the perfect choice for encapsulating the gables, knee walls and roof deck to properly air seal and condition attics.

A conditioned attic will remain between 70-80 degrees with approximately 10 degree temperature difference from the interior space. A ventilated or non-condition attic could have a temperature swing of 80 degrees or more from the living space during the peak time of the summer. This isn't good for the home and risk the potential of severe attic humidity and ductwork condensation. Furthermore, negative pressure from the air conditioning could pull this humid, warm air inside the thermal envelope. By insulating the roof deck with the premium spray foam insulation you eliminate the problems associated with improper ventilation and moisture.

"Developing an envelope to eliminate waste, minimize air leakage and increase thermal performance was necessary"

Closed Crawlspace: Closed Cell Spray Foam

For years homeowners have been fighting mold problems in crawlspaces; getting sick from the contaminated air leaking inside the thermal envelope. Properly sealing and eliminate vapor diffusion into the home is the clear, safe option for protecting the home from mold, wood floor deterioration and insect control. The added benefit of a closed crawlspace is room temperature flooring during the winter making it comfortable to walk on wood and ceramic tile flooring. The closed cell spray foam is considered an air barrier at 1" and vapor barrier at 1.5" giving options for insulating and conditioning basement walls and RIM joist.

Closed Crawlspace: Vapor Barrier

Installing a commercial grade vapor barrier is very important when properly designing moisture protection in the crawlspace. The EnergySeal closed crawlspace implements Crawlspace Concepts' Dryspace 12 mil Diamondback fiber-reinforced vapor barrier sheet membrane and flashing to provide customer with a 25 yr "tear proof" warranty. Our closed crawlspace system can also be modified to include Forticel mold treatment for a 25 year complete Mold Proof Warranty.

HVAC Sizing, Testing & Inspections

Once our insulation package is approved in writing the building science manager will send a form requesting information about the building envelope (i.e. windows, doors, walls) and provide a Manual J8 load calculation to be guaranteed against our insulation. Blower door testing and ductwork inspection are recommended after insulation and mechanical unit installation to ensure quality. Developing an envelope to eliminate waste, minimize air leakage and increase thermal performance was necessary to parallel the APEX vision and the future of home efficiency.

EXTERIOR & SOUND WALLS
JM SPIDER Sprayed Insulation

ATTICS, GARAGE CEILINGS
Open Cell Spray Foam Insulation

CRAWLSPACES, BASEMENTS
Closed Cell Spray Foam Insulation

CRAWLSPACES VAPOR BARRI
Dryspace 12 mil Membrane

HVAC LOAD CALCULATIONS
Manual J8 HVAC load guarantee

FINAL INSPECTION
Blower Door Testing

APEX GREEN\$EAL INSULATION PACKAGE

APEX Building Company has developed an innovative approach to sustainability on the exterior envelope. We are offering recycled sprayed insulation, spray foam insulation, frame caulking, air sealing, Manual J8 load calculation and blower door tests as the new STANDARD INSULATION PACKAGE for our New Homes.

Recycled insulation, blower door testing and HVAC load calculations are all part of the **GREEN\$EAL** program.

As energy prices increase the cost of living we begin to focus our attention on the details that matter the most in building homes. APEX has designed a unique program to fit the budgets of every home yet sustainable to save homeowners enough money in energy to pay for the system 10 times over the life cycle of the home. Our system is a risk-free guarantee to builders and clients that the building envelope and comfort control are specifically matched to ensure the temperature of the home when it matters the most. Using recycled and super-efficient insulation products and building performance testing we are able to design the insulation and mechanical system for optimum performance.

The GreenSeal program is structured to eliminate humidity, reduce utilities, provide added comfort control and increase home air quality. The heating and air requirements are reduced 25-40 percent saving money on the building cost too. The home performance will be equal or greater than Energy Star standards for every home.

APEX
Building Company

Call us to get a **FREE** quote!
Michael Fitzgerald Hunter Clement
731.695.8283 731.693.0757

888.581.1783 Toll 615.345.0426 Nashville @apexbuildingco estimating@apex.biz