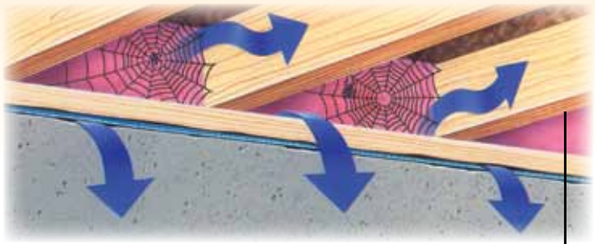
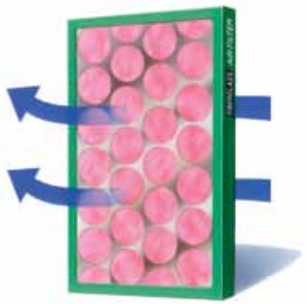
## INSULATION DOES NOT STOP AIR LEAKAGE

**Think about leaving a window open everyday, ALL YEAR LONG!**

A typical home has so many gaps, seams and holes through walls, ceilings and bonds that the sum total of this collective leakage can amount to 400 square inches or more.



**If you see spider webs** where the basement walls meet the wood supporting the first floor, that's a sure sign that there is a stream of air bringing insects into the spider's trap.



**The actual R-Value of insulation is reduced by as much as 70% when air leaks through walls and ceilings.**

Without Nelson Energy Seal® you are paying to heat and cool air that immediately moves through your insulation and out of your home.

## Dedicated to building performance!

There is no company in the world with more experience in the measurement, identification and elimination of air leakage.

Since 1981 we have Energy Sealed more than

**100,000 HOMES!**

We have applied our expertise in air leakage and building performance to computer rooms, dyno cells, telephone switch rooms, "clean" rooms, nuclear power plant control rooms and, most importantly, **to your home.**

**Here's what the experts are saying...**

**"To reduce the amount of energy used heating and cooling their homes, most people focus on adding insulation. But controlling air infiltration is more important."**
*- Fine Homebuilding*

**"The first step to an energy efficient house is tight construction. Sealing all openings, joints and electrical outlets can reduce heat loss by 30%."**
*- Professional Builder & Remodeler*

**"Fully 85-90% of all measured leakage in typical new construction occurs through sources other than windows and doors."**
*- Professor David Harrje, Princeton University*

**"The value of reducing excessive air leakage cannot be over stressed."**
*- National Association of Homebuilders*

**D.R. NELSON** & ASSOCIATES, INC.
Building Science *Delivered*

ENERGY STAR PARTNER

For more information ask your salesperson or call 248.393.9100

**www.energyseal.com**

# WE BUTTON UP YOUR HOME'S OVERCOAT


**NELSON** ENERGY SEAL®
Building Performance *Delivered*

# THE PROBLEM • • •

***Even in the finest construction, hundreds of seams and holes are created during the building process, allowing air to escape.***

The arrows at left show some of the many paths through which outside air moves into your home and through which air escapes.

In a typical house, these holes gathered together in one spot would create an opening of 400 square inches or more! Collectively, it's the same as leaving a window open all year long!

Among other problems, these openings can cause frozen pipes, uncomfortable drafts and high heating and cooling bills.

***Eliminating these sources of air leakage through effective sealing during the construction process is the single greatest impact you can have on your home's performance.***

# • • • THE SOLUTION

The Nelson Energy Seal® service shown at right stops excessive air leakage by strategically applying sealants during two critical stages of the construction process.

When we "Button Up Your Home's Overcoat" high heating and cooling bills and drafts are sealed out.

This unique service protects the R-Value of your insulation and helps ensure that it will perform at peak efficiency.

Our homes are randomly tested to verify the rate of air leakage. This performance testing guarantees quality materials and professional, effective workmanship.

ENERGY STAR PARTNER

The **NELSON ENERGY SEAL®** service improves your home's performance and protects the R-Value of your insulation by eliminating excessive air leakage.

It is vitally important to seal your home during the construction process. If your home is built without our sealing service, many sources of air leakage would become inaccessible after completion. *We seal your home at two critical stages of the construction process:*

## Energy Seal - Stage 1

At the rough frame stage, we seal the exterior surfaces including all sill plates, bond joists, top plates, sheathing holes, electrical, mechanical and plumbing penetrations, overhangs and dozens of other problem areas.

## Energy Seal - Stage 2

After the drywall is installed, we seal around the edges of the openings made for electrical outlets, plumbing fixtures and other holes through the exterior walls and ceilings – what we call the "envelope" of the home. This critical step reduces air leakage and moisture migration into exterior walls and attics.

## The benefits are many. You will enjoy…

- **Lower heating & cooling bills with savings of up to 25%.**
- **A comfortable environment without drafts.**
- **Cleaner air by reducing dust, pollutants and insects.**
- **Quieter home by reducing airborne sound.**

**NELSON**
Energy Seal®