



## 1 - CONTINUOUS RIDGE VENT

Eliminates hot air pockets at ridge of the roof; allowing full air flow along the length of the roof for even flow, preventing wear streaks as the result of individual cap vents.

## 2 - R-50 ATTIC INSULATION

Provides a high level of resistance to conductive energy loss and gain from an unconditioned attic. The higher the R-value the less wasted energy.

## 3 - RAFTER BAFFLES

We choose to add insulation baffles to EVERY truss cavity allowing for improved attic ventilation in both quantity and consistency.

## 4 - ENERGY HEEL

This small detail with a big benefits is a piece of recycled construction waste, which raises the roof trusses allowing double the attic insulation in critical areas reducing energy loss, without compromising airflow. This means a cooler roof in winter preventing ice dams.

## 5 - TRUSSLOCK SCREWS

These allow drywall to seal tight to the top plates of the wall minimizing air movement.

## 6 - SMART TRIM

Used for exterior trim and a composite that reduces the need of old growth material. It is also more dimensionally stable and more weather resistant than Cedar or Pine.

## 7 - ENERGY STAR® RATED EXHAUST FANS

110cfm Exhaust Fans direct vented to the outside, these upsized fans move 60% more air than code requires. Spot ventilation such as bath fans and kitchen exhaust remove excess humidity, odors and harmful gasses at the source.

## 8 - ADVANCED AIR SEALING METHODS

By strategically applying spray foam to all penetration areas of the ceiling and walls (can-lights, HVAC runs, fans, outlets) this reduces air infiltration and minimizes energy loss through the attic and walls.

## 9 - LOW-FLOW TOILETS

Uses significantly less water per flush, you are helping the environment every day.

## 10 - WATER SENSE® CERTIFIED MOEN® PLUMBING FIXTURES

Reduces water consumption by 20% without sacrificing performance.

## 11 - TYVEK® HOME WRAP®

Applied to all exterior walls and gable ends, Tyvek® acts as a rain coat for the home keeping bulk water out, allows the home to breathe while reducing drafts, and is water vapor permeable. Water vapor can travel through the membrane in one direction--inside to out.

## 12 - NEOPOR®

Rigid insulation foam sheathing material reinforced with graphite fibers. The graphite lends strength to the foam and increases the overall R-value of the sheathing. Our homes have Neopor® foam boards as sheathing over OSB (oriented-strand board, a wood product) to significantly reduce thermal bridging. Think of this as your jacket layer that many new homes go without.

## 13 - HIGH PERFORMANCE WALL SYSTEM

1" rigid insulation foam on exterior walls (R-5) over 7/16" OSB, R-15 dense packed fiberglass for superior sound deadening reduction in thermal transfer. Total Wall R-Value (R-20.55)

## 14 - ADVANCED FRAMING

Like three-stud corner framing removes non-essential wood, which provides better insulation and performance and decreases condensation.

## 15 - LOW TO ZERO VOC PAINTS AND ADHESIVES

Help maintain healthy indoor air quality.

## 16 - INSULATED HEADERS

This added insulation over every window increases the R-value and reduces thermal bridging.

## 17 - THIRD PARTY BLOWER DOOR TEST

Measures the tightness of the building envelope by putting a negative pressure on the home amplifying air leakage when viewed through an infrared camera.

## 18 - ENERGY STAR® RATED WINDOWS

Single-hung windows with Low-E coating, 98% argon filled insulated glass, and .27 U-value (code requirement is .40 U-value). The lower the U-value of glass, the better.

## 19 - SPRAY FOAM BASEMENT BOX SILLS

In a typical home 30% of the air leakage occurs in the basement. Sealing this area dramatically reduces that air leakage. This continuous barrier eliminates drafts, prevents pests from entering, and increases comfort.

## 20 - DUCT WORK IS SIZED AND BALANCED BY A THIRD PARTY PROFESSIONAL

The air flows for each room are designed based upon size, orientation, and physical make-up. An Energy Consultant checks the actual air flows and adjusts each room if needed.

## 21 - R-7.5 FOUNDATION INSULATION

Keeps the foundation walls warm, reducing energy loss. The warmer the wall the higher the comfort.

## 22- 10-YEAR WATERPROOFING SYSTEM

Concrete is strong and dense, but it is permeable to water given enough time. Dorken-Delta Foundation Drainage frees the foundation walls from hydrostatic pressure that lead to water leaks in foundation walls. Also allows the foundation to cure to the outside vs just the inside.

## 23 - DRAIN TILES

Form-A-Drain® is a 2-chamber system; applied around the base of the basement wall. The back-up chamber allows for free water flow and is kept in place as the active drain tile. This systems ensures the foundation walls do not deteriorate, which can happen when water seeps through a porous foundation wall.

## 24 - SOIL GAS VENTING SYSTEM

An exhaust fan in the attic pulls the subsoil gases from beneath the home and vents it to the outdoors where it quickly dilutes. This effectively prevents harmful gases from entering the home for healthier indoor air, and a drier basement. A pressure sensing device shows that the system is functioning properly.

## 25 - HIGH EFFICIENT, CENTRALLY-LOCATED, 95% FURNACE

Centrally located in the basement for optimum performance. Code requires air furnaces to be at 90%. This ensures optimal performance and ductwork is kept out of exterior spaces.

## 26 - HONEYWELL MEDIA AIR CLEANER:MERV 10

(Minimum Efficiency Reporting Value) air filters catch 99% of particles greater than 1 micron (copy toner). A standard filter will only catch 60% of ordinary house dust.

## 27 - ERV

We install an ERV in all of our homes. This employs a cross flow heat exchanger between inbound and outbound air flow. This provides great ventilation in the home without the loss of heat or humidity. Fresh air, climate control, and energy efficiency are all benefits of having an ERV in your home.