



WONDERLAND HOMES

it's about character...

With more and more builders joining the Energy-Star program, what separates one from other.....at Wonderland Homes, we believe in delivering MORE than what we promise when it comes to Energy-Star, and here is how we do it:

- 1) Whole-House Approach: What steps do Builders take to ensure that the individual parts of the house work together as a system?
 - a. At Wonderland Homes, we periodically meet with our Architects, Energy Consultants, trade partners, Design and Construction Teams to review and implement any changes that could enhance the efficiency of our homes.
- 2) Quality Control: What procedures are used to ensure quality construction and performance for this house?
 - a. Each home we build undergoes rigorous testing early in the process which includes, the Thermal Bi-pass checklist (to ensure proper air-barriers), Insulation Installation Inspection, and duct-leakage test (while some other builders perform this test prior to closing, we do this at rough stage right after the ductwork is complete. Why? Simple....it's the best time to catch and correct any mistakes, any later and many areas are not accessible and the builder might be guessing where the mistakes are. We also use 3rd party energy-raters to randomly test our homes for Energy-Star compliance using a Blower Door Test to measure how tight the home was constructed in the final stage and confirm our results from the rough stage.
- 3) Solar-Smart Design: How was the sun considered in the design of this house?
 - a. All our homes are designed with consideration to overhangs/covered porches and eaves that provide natural barriers to the sun while adding to the aesthetic appearance of your home.
- 4) Windows: Do all windows have low-e or solar-controlled coatings?
 - a. Yes....all our windows have low-e coating, even in the basement.
- 5) Insulation: How can I be assured that insulation was installed to deliver its rated performance?
 - a. Where possible, we use a blown cellulose spray insulation to provide better insulation coverage and minimize gaps. All our homes receive a 3rd party Insulation Installation Inspection to ensure that we are installing the insulation to the Energy-Star accepted methods.
- 6) Tight Construction: How do you balance tight construction and the need for fresh air in this house?
 - a. Within our HVAC return air ducts, we install a Make-up air intake that automatically pulls fresh air into the system and provides you with a continuous source of fresh air, even when the climate isn't conducive to opening doors and windows.
- 7) Foundation: What steps are taken to ensure the basement stays warm and dry?
 - a. Our foundations are designed with damp-proofing coating on the exterior side to help prevent water penetration. We also install sump pits in all our homes for future installation of sump pumps if required at a later date. All the walls are

- insulated with R-11 drupe and the rim boards are first blown with cellulose insulation, and then covered with batt insulation for added insulation protection.
- 8) Exterior Water Management: What steps have been taken to keep exterior water out of the home?
 - a. We design the proper drainage planes away from the home with detail paid to our foundation damp-proofing, sump pits, roof gutter and downspout locations, house wrap under exterior siding, proper grading away from the foundation walls, and attention to detail with our landscaping and plant material to ensure that water is not being distributed too close to your foundation.
 - 9) Indoor Moisture Management: How will I be able to control moisture levels in the home?
 - a. With our tight construction practices, we have taken the steps to reduce outdoor influences within your home and balance the air quality. We also have an option to add a humidifier to your home based on your preference.
 - 10) Combustion Safety: Will all combustion products be safely vented outdoors?
 - a. Yes....we direct-vent all combustion appliances to the exterior of the home. We use only sealed direct vent fireplaces, our range vent is ducted to the exterior of the home (not re-circulated), and we have several available upgrades packages which include power-vented water heaters.
 - 11) Summer Cool Choices: Will this house be comfortable during the summer without a large air conditioner?
 - a. Our 3rd party energy consultants review and provide feedback on all our calculations to make sure we properly balance your cooling system without oversizing the AC unit and costing you unnecessary money.
 - 12) Forced-Air heating and cooling equipment and ductwork: What steps have been taken to ensure that each room receives the amount of conditioned air it needs to stay comfortable? Are test results available for the heating and cooling equipment as it has been installed in this home?
 - a. Our 3rd party energy consultants review and provide feedback on all our calculations to make sure we provide the most comfortable home we can. Our duct leakage test criterion maximizes the amount of air-flow being circulated throughout the home, and minimizes leakage within wall cavities and other areas of the home. Our Manual-D and Manual-J calculations are available for review at any time. Each home that is randomly tested will be provided with the specific E-Star test results.
 - 13) Appliances: How do the builder-supplied appliances compare with Energy-Star standards?
 - a. At this time, gas ranges are not able to be tested for Energy-Star, so no gas range can be given the Energy Star label. However, all other appliances, whether standard or optional are Energy Star rated.
 - 14) Lighting: How was energy efficiency considered in the lighting design for this house?
 - a. Our exterior garage lights are installed on photoelectric cells to operate automatically. We use only air-sealed recessed can lighting throughout our homes to reduce air leakage between floors and/or to the attic spaces.

For more information regarding the Energy Star program, ask our Sales Team and/or visit these websites:

www.energystar.gov

www.coloradonewhomechoices.org