



Douglas Construction Group's Continued Commitment to Green Building

Green Initiatives - we are in the process of compiling all of our green initiatives and putting into a brochure format for our clients. In the interim, here is a quick list. We have put tremendous effort and research into our building envelope, insulation and air quality techniques - those have best direct benefit for our clients, and pay dividends, through lower utility bills over time.

What makes construction and materials "green:" recycled, recyclable, non-toxic, sustainable, earth-friendly, energy efficient, low greenhouse gas emissions, good building procedures
SIMPLY DOING THE RIGHT THING

- ▶ Previous Home (s) razed and recycled - carefully separating metals, concrete and brick, wood, etc so it may be recycled
- ▶ Advanced Building Sciences & Advanced Framing Techniques
- ▶ 2 x 6 exterior framing
- ▶ 24" on center framing, to minimize thermal bridging
- ▶ attention to corner and header framing, minimizing wood and allowing for better insulation
- ▶ DOW SIS panels - combines structural bracing, insulation value and water-resistive barrier properties; minimizes thermal bridging; reduces potential condensation, reduces mold & mildew opportunities in wall cavities
- ▶ Advantech radiant barrier plywood for roof sheathing - reduces heat build up in summer by as much as 20 degrees decreasing cooling requirements and loads.
- ▶ Insulation - our homes well exceed local standards - R-50 blown-in insulation in attic, made of recycled materials, reduces voids and gaps in typical batt insulation; A combination of spray foam and batt insulation is used for the exterior walls to additionally seal against air infiltration and increases walls values to R-28 (higher R values, seals cracks, voids, eliminates drafts), rigid foam board at foundation walls
- ▶ Fresh air intake system - controlled thermostat and motorized damper, brings in fresh air allowing for 12 hour turnover; increases indoor air quality
- ▶ High efficiency gas furnace with humidifier - humidified air feels warmer, and allows you to keep temperature set lower
- ▶ Appliances - Energy Star
- ▶ Drywall - gypsum Sheetrock, manufactured by USG, is 99% recycled; the paper backing is 100% recycled

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- ▶ Kitchen, bath and laundry plumbing fixtures - EPA certified "Water Sense."
"Water Sense labeled toilets and faucets save more than 11,000 gallons annually" as stated by the EPA. Low flow water regulators used on most fixtures
- ▶ Wired for ceiling fans in some rooms, which can cut air conditioning bill by as much as 40% in summer, and heating bills by 10% in winter (results will vary)
- ▶ Engineered Wood - at I-joist floor system, LVL's, OSB rim board, uses 45% less lumber, and composed of lumber from young, managed forests and lower grade lumber
- ▶ Trusses - incredibly efficient wood usage. Made from 2 x 4's they are structurally equivalent to using 2 x 12's
- ▶ Subfloor adhesive - no- voc, water based
- ▶ Subfloor Sheathing - Advantech - made with no urea formaldehyde and low voc- adhesives.
- ▶ Exterior Sealed - all penetrations sealed using expanding foam and 100% silicone caulk; prevents condensation in wall cavities, preventing mold and mildew
- ▶ Windows - Anderson; window placement to best benefit from sun; energy star rated with low E package
- ▶ Exterior Doors - double glazed, insulated glass frames insulated and sealed
- ▶ Siding - James Hardie fiber cement board - arguably the most durable siding available. Made of recycled materials, reduces exterior maintenance and painting, reducing future use of resources, resists fungal decay and termites. Helps avoid the use of wood and PVC
- ▶ Exterior Trim - made from recycled materials; Miratec, with similar characteristics as the siding benefits
- ▶ Decks - Trex & Evergrain decking; made from plastic bags, and pallet and waste wood, making it 100% recycled product.
- ▶ Steel Beams and Posts - steel contains significant recycled material
- ▶ Paints, Primers, Stains and Wood Finishes - voc free whenever possible
- ▶ Interior Doors - made from recycled materials
- ▶ Lighting - energy star lighting used whenever possible. Florescent recess lamps available
- ▶ Garage Door - fully insulated
- ▶ HWH - high efficiency gas direct vent
- ▶ Carpet - voc free carpet available
- ▶ Concrete - locally produced, containing approximately 30% reclaimed cement in the form of fly ash and slag
- ▶ roughed in for future solar panel option
- ▶ Mastic sealed ductwork ensures maximum airflow while saving energy

DCG is committed to continually improve their green building practices. Every effort is used to include all items listed above in each DCG home - it is possible some aspects may not be included however. Please consult with a DCG representative for additional information.