

Douglas Construction Group's Continued Commitment to Green Building

Green Initiatives - 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 and home maintenance over time. Our definition of green building is to build a quality home minimizing the impact to the environment, lowering carbon footprints while providing a more comfortable, healthy indoor environment – this philosophy was recognized when DCG was voted Bethesda's Best Green Builder for 2012, by *Bethesda Magazine*, and honor we are proud of.

What makes construction and materials Agree: @ 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 & maximize insulation
- < 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 - 30 degrees decreasing cooling requirements and loads lowering energy costs.
- < Insulation - our homes well exceed local and energy star 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 and moisture leading to mold in wall cavities), rigid foam board at foundation walls
- < Fresh air intake system - controlled thermostat and motorized damper, brings in fresh air allowing for 12 hour turnover; improves indoor air quality, providing a healthier environment for your family
- < 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
- < Kitchen, bath and laundry plumbing fixtures - EPA certified AWater Sense.@ AWater 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 and / or JeldWen; window placement to best benefit from sun; energy star rated with low E package
- < Exterior Doors – wood and / fiberglass with 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; SmartSide, 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 – low voc whenever possible
- < Interior Doors - made from recycled materials
- < Lighting - energy star lighting used whenever possible, and 50% CFL=s throughout
- < Garage Door - fully insulated
- < HWH - high efficiency gas direct vent, eliminates chance of back drafting
- < Carpet – low and voc free carpet available
- < Concrete – locally produced, containing approximately 30% reclaimed cement in the form of fly ash and slag
- < 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.