



Buildgreen Industries Information/Promotional Packet

Background:

- 30 years ownership of construction businesses in SC and CO, specializing in residential and commercial new construction, green building, technical and specialty concrete projects, decorative concrete surfaces, residential and commercial custom pool construction, mechanical systems for buildings and pools.
- SC and NC Licensed General Contractor, and SC Licensed Mechanical Contractor
- Certifications in LEEDS, Green Building, Concrete Tiltwall Construction, Solar Panel installation

Buildgreen Industries Description:

As a Licensed General Contractor in SC and NC, Buildgreen Industries constructs high-performance residential and commercial buildings. Our core belief is that responsible green building begins with conservation, and our core practices are to use technical concrete to construct an energy-conserving building envelope and to install HVAC mechanical systems that are sized appropriately and utilize maximally-efficient air distribution. Our buildings require much less energy to heat and cool than traditionally-built structures and can be served by smaller, more cost-effective HVAC systems. In addition, Buildgreen is also a pioneer in this area in the use of horizontal ground source energy loops that take advantage of the ground temperature along the Carolina coasts to provide heating, cooling and hot water. Buildgreen is a budget-conscious builder utilizing practical and affordable technology to reduce the lifetime costs and consumption of structures.

At Buildgreen, we believe that every newly-designed building can reduce traditional energy consumption by at least 40% with the tools of thoughtful design, airtight enveloping, and efficient air-distribution.

Project Summary:

As a general contractor in SC since 1996, fifteen residences and ten commercial buildings constructed in addition to pools, water features, residential decks and commercial decks.

Green Building Projects since 2008:

- 3000 SF house in Bolivia NC
Engineer: Craig Daniels
Designer: 3D Designs
Guaranteed HVAC usage



ICF Construction
Spray-foam Insulation
Radiant Barrier
Geothermal HVAC (horizontal ground closed loop piping)
Energy Recovery Ventilation to ensure indoor air quality
Radiant heating
Hybrid Electric Heater

- 2000 SF house in Green Sea Floyds, SC
Raised composite deck with concrete floors
Insulated crawl space
ICF Construction
Spray-foam insulation
Geothermal HVAC (horizontal ground loop)
Energy Recovery Ventilation
Radiant heating
Hybrid Electric Heater
Metal Roofing
- 6500 SF house in Myrtle Beach, SC
Retrofitted with 10 Ton Geothermal system for heating 40,000 gallon pool
Radiant heating
Reduced size of HVAC system, replacing 4 air-to-air units with 2 geothermal units and ERV
Installed 4 panel, 132K BTU solar thermal system interfaced with the geothermal system
- 10,000 SF commercial store in Ocean Isle Beach, NC
ICF construction
Horizontal ground loop geothermal HVAC system
Reduced size of HVAC system from 70 tons to 20 tons
- 4000 SF Medical Office in Myrtle Beach, SC
10 Ton geothermal system
Spray-foam insulation
Radiant barrier
Radiant heating
ERV
- 10,000 Office and Warehouse in Myrtle Beach, SC
Geothermal system
Solar Hot Water and Photovoltaic system integrated with geothermal



Services Offered:

- Turnkey Construction of residential and commercial buildings
- Structural/Mechanical packages for other contractors or homeowners acting as contractor
- Concrete construction, with benefits in energy conservation, wind resistance, fire resistance, durability
- Retrofitting of existing structures with energy-saving HVAC systems and building envelope improvements; energy-consumption testing
- Specially designed HVAC mechanical systems with lower energy consumption, lower cost of equipment, improved air quality with lower levels of dust and allergens
- Superior building envelope with use of concrete construction, radiant barrier, spray-foam insulation
- Use of radiant floor heating for energy savings and occupant comfort
- Integration with renewable energy systems (solar thermal and photovoltaic) for energy generation and further savings
- Energy Use Guarantee for home heating and cooling
- Assistance with applying for federal and state tax credits available to homeowners and businesses using green building