Residential Home - Pinehurst, NC

Homeowner installs ENRG Blanket to reduce monthly energy expense while maintaining optimal comfort

Application Overview

ENRG Blanket was part of the thermal design for this new construction home in Pinehurst, NC. The owner wanted to maximize thermal comfort while accomplishing a meaningful reduction in the monthly utility bills.

ENRG Blanket™ installed into the walls and ceilings to reduce energy and provide enhanced thermal comfort
1. The Project
The owner of this Pinehurst, NC home wanted to build the most energy efficient home possible for his budget. He did the necessary research on options to improve the energy and thermal performance on his home and sought out Phase Change Energy Solutions to learn about the advantages of phase change materials.

2. The Challenge
Thermal comfort and low energy bills were two core requirements of this home’s design. The Phase Change Energy Solutions team was engaged to review the plans and recommend the most effective phase change material for this project.

3. The Solution
Phase Change Energy Solutions’ engineering team analyzed the design and plans to provide a recommendation for ENRG Blanket material and placement in the structure. The final design included placement of ENRG Blanket in both the interior walls and ceiling to provide the maximum thermal benefit.

4. The Results
The impact of ENRG Blanket on this home’s utility bills is significant. Even in cold winter months and hot Carolina summers, when the temperature frequently exceeds 100°F, the homeowner remains comfortable with low utility bills. The owner is delighted with his decision to include ENRG Blanket, knowing it will pay him back many times over and last for the lifetime of the home.