

# Energy Efficient Homes and Cellular Coverage



Homes built in the last 10 years have construction techniques designed to make them more energy efficient. Some of the materials used in construction have the effect of blocking Radio Frequency Signals including Cellular Voice and Data, TV, FM/XM Radio are common. The construction materials that exhibit this effect include, Radiant Foil Barriers(Techshield), Wire Lath used in Stucco, High E Windows(Metallic).

The higher price of energy is also driving more people to Telecommuter or work from home Exclusively. The Cellular Phone is emerging as the primary communication vehicle for voice and data. Smart Phones like the Blackberry have become mainstream and people have come to expect constant email and voice communications.

So without question people expect that this communications vehicle also extends to their home office. So a solution that allows them to have an energy efficient home which is at the pinnacle of their requirements coupled with the ability to utilize Cellular Communications is key.

## How it Works

In the simplest terms we bring the Cellular Signal from outside the home and retransmit inside the home. The concept is simple the execution requires many factors to be designed into the solution to ensure proper operation. Each cellular carrier utilizes different frequencies which requires the equipment to be specific to that carrier. The system is comprised of an external antenna on the roof, a state of the art cellular amplifier, low loss rf cabling, and interior antenna's.



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