

New Builds and No Service: The Hidden Problem of Energy-Efficient Homes

Moving into a newly built home is an exciting milestone. You have an A-rated energy efficiency certificate, triple-glazed windows, and the highest standards of insulation. But shortly after moving in, many Irish homeowners notice a frustrating trend: their mobile phone screen says "No Service."

It is ironic that the very features making your home warm and energy-efficient are also blocking your connection to the outside world. This is the "Faraday Cage" effect, and it is the number one reason owners of new builds contact us for a **Mobile Phone Signal Booster**.

The foil-backed Barrier

To achieve high BER (Building Energy Rating) standards, modern Irish homes use foil-backed insulation boards (like Kingspan or similar brands) in the walls and roof. This aluminium foil layer is fantastic for reflecting heat back into the house. However, aluminium is also excellent at reflecting radio waves.

When the mobile signal from a nearby tower hits your house, it bounces off the foil insulation. The signal that does manage to get through is often further weakened by:

- **Triple Glazing:** Modern glass often has a microscopic metal coating (Low-E glass) to prevent heat loss, which also blocks mobile signals.
- **Underfloor Heating:** The water and pipes in concrete floors can dampen signal propagation between floors.

Wi-Fi Calling is Not a Perfect Fix

Network operators often tell customers to "just use Wi-Fi calling." While helpful, it isn't a complete solution.

- **Handover Issues:** If you step into the garden or driveway while on a Wi-Fi call, the call often drops as your phone struggles to switch to the weak mobile network.
- **SMS Verification:** Some banking and security texts (OTP) require a standard cellular connection and won't come through over Wi-Fi.
- **Guest Access:** You don't want to have to give your Wi-Fi password to every delivery driver or tradesperson who needs to call their office while in your house.

The Signal Booster Solution

A **Mobile Phone Signal Booster** bypasses the barriers of your energy-efficient home. By installing a small, powerful antenna on the exterior of your building (where the signal is not blocked by insulation), we can capture the network quality you are paying for.

A cable runs from this external antenna into the attic or a utility space, bypassing the foil-backed walls. The amplifier then pushes the signal to internal antennas, effectively "generating" a cell tower inside your home.

A Clean, Professional Install

Owners of new builds are understandably protective of their decor. You don't want messy wires trailing across your freshly painted walls. At **Smart Sat Connect**, we pride ourselves on "invisible" installations.

- **Cabling:** We utilize existing ducting or route cables through attics and wall cavities to ensure no unsightly wires are visible.
- **Antennas:** Our internal antennas are sleek and discreet, often resembling a smoke detector.
- **Respect:** We treat your new home with care, wearing boot covers and cleaning up any dust created during installation.

Conclusion

You shouldn't have to choose between a warm home and a working phone. You can have both. If your A-rated home is killing your connection, **Smart Sat Connect** has the answer. Our **Mobile Phone Signal Booster** systems penetrate the insulation barrier, giving you crystal-clear calls in every room of your new house.