

# Photovoltaic panels installed on Spanish rooftops

How do I install solar panels on a lightweight tile roof?

The best way to install solar panels on a lightweight tile roof is through a method called inset solar installation, also known as a "comp-out" installation. This technique removes the section of tile where the solar panels will be installed and replaces it with composite shingles before mounting the solar array.

Can a tile roof handle solar panels?

If you have a tile roof and are considering solar energy, you might be wondering whether your roof can handle solar panels. Tile roofs--especially lightweight cement or clay tiles--are beautiful and durable but also delicate. Unlike asphalt shingles, they can crack easily under pressure, which makes solar installation a bit more challenging.

What is a Spanish tile roof?

Spanish tile refers to the style of the tile, not the material. Spanish tile is usually made of either clay or concrete. Installing a solar PV system on a clay tile roof, generally, is far more expensive than installing on a concrete tile roof.

How do you install solar panels on a new roof?

Mounting the solar panels - Once the new roof section is complete, a solar expert installs the racking system and solar panels securely onto the composite shingles. Unlike tile, these shingles can handle the weight and pressure of solar mounting without breaking.

Can solar panels be installed on lightweight tiles?

If installers attempt to mount solar panels directly onto lightweight tiles, several issues can arise: Tile breakage: Walking on or drilling through these tiles can cause cracks or breaks, which may lead to roof leaks and structural damage.

Does a Spanish tile roof look like clay?

In general, concrete Spanish tile roofs look more uniform than clay. However, sometimes roofers do use a fiberglass composite that looks like clay. Unfortunately for customers with fiberglass composite roofs who want to go solar, these type of roofs, like a clay tile roof or fragile (thin) tile roof, would need a comp-out. Do a Google Maps search.

But if you are curious about installing solar panels on Spanish tile roofs, the good news is that it's entirely possible! In this article, we'll walk you through installing solar panels on these tile roofs ...

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