

# Solar tile roof structure





## Overview

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What are solar panel roof tiles?

Solar panel roof tiles are small photovoltaic panels shaped to look like normal roof tiles. They absorb sunlight to convert it into electricity in the same way that standard solar panels do.

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.

How do solar roof tiles work?

Solar tiles are made out of the same basic materials as any other solar product. The solar roof tiles contain Photovoltaic materials like monocrystalline or polycrystalline cells. They are linked together forming a circuit that takes DC power generated from the panels and turns it into AC current for your home.

Can solar panels damage a tile roof?

Future damage from vibrations: Even if tiles remain intact during installation, they can weaken over time. Wind moving between the solar panels and the racking system can create vibrations that cause tiles to crack down the road. Because of these risks, standard installation methods won't work for tile roofs —especially lightweight ones.



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