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SOLAR POWERED ROOF SYSTEM



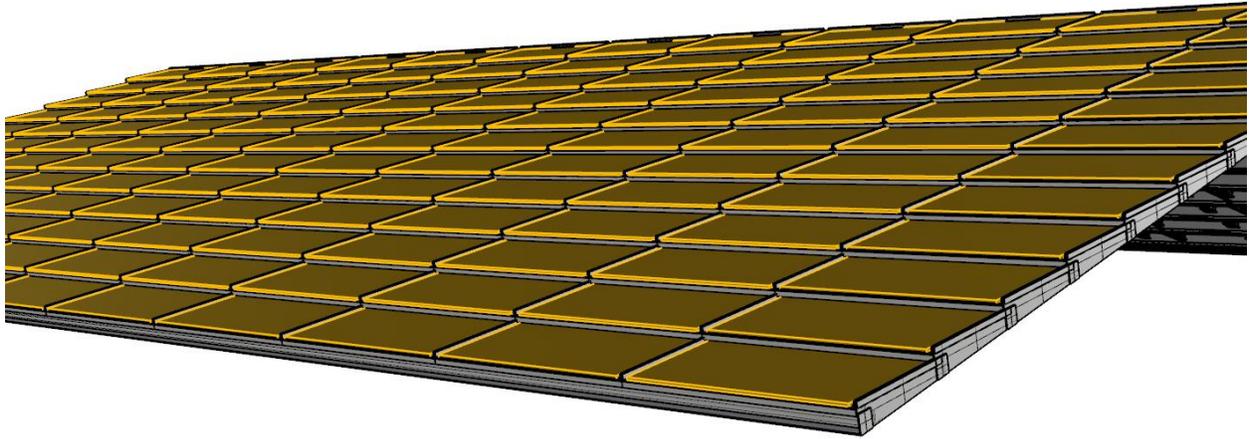
G-P LLC presents solar powered roofing system, a new in a series of our **integrated solar products**. One of the first applications of solar energy in residential areas were the roof mounting systems and they still are the **most commonly used ones**. Large, unused areas of your roof certainly made a perfect choice for installing solar panels and **saving money** on electric bills. But there was an increased need of aesthetically pleasing system, that's completely integrated and doesn't have the **double cost** of installing the **roofing and then mounting the solar** array on it.



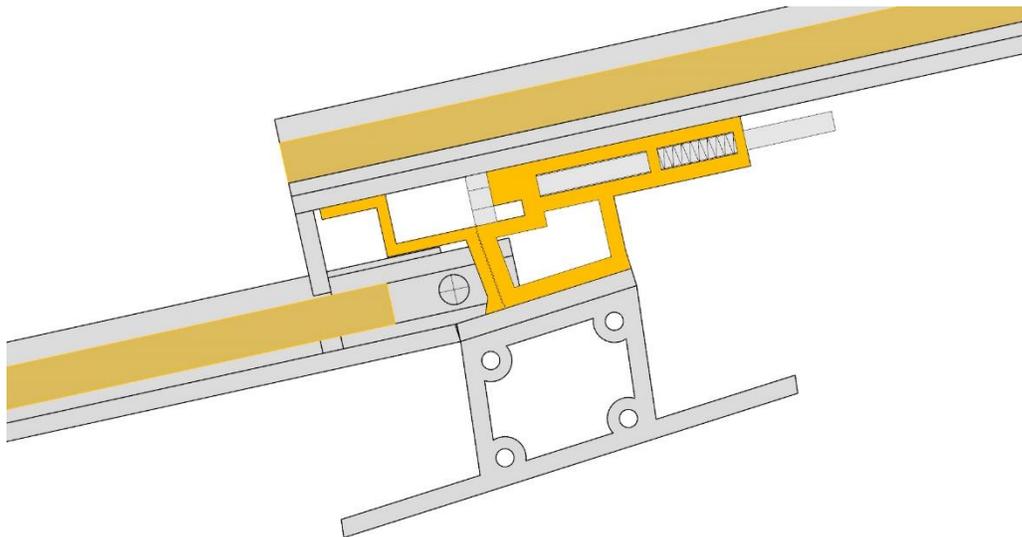
G-P LLC solar roof tiles system uses thin film PV modules as roof tiles and replaces traditional roofing systems. What separates our product from others is a set of unique features that makes it the most advanced design on the market. Features like different pattern mounting types, easy panel removal if maintenance is required (no need to remove whole array), array of different colors, and much, much more.

SOLAR POWERED ROOFING FEATURES

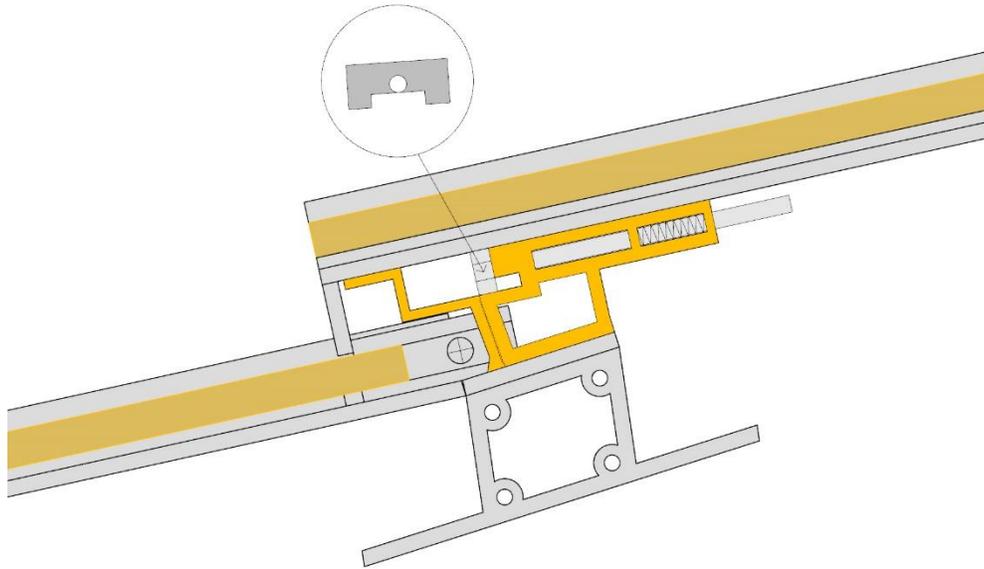
Solar powered aluminum roofing system is designed to **withstand hurricane large projectiles and bad hail storms**. By changing aluminum sheet metal panel the system can **support most solar modules** manufactured in the world from one square foot to 5 square feet sizes and it can be manufactured with pre-galvanized and painted steel, aluminum, copper or brass.



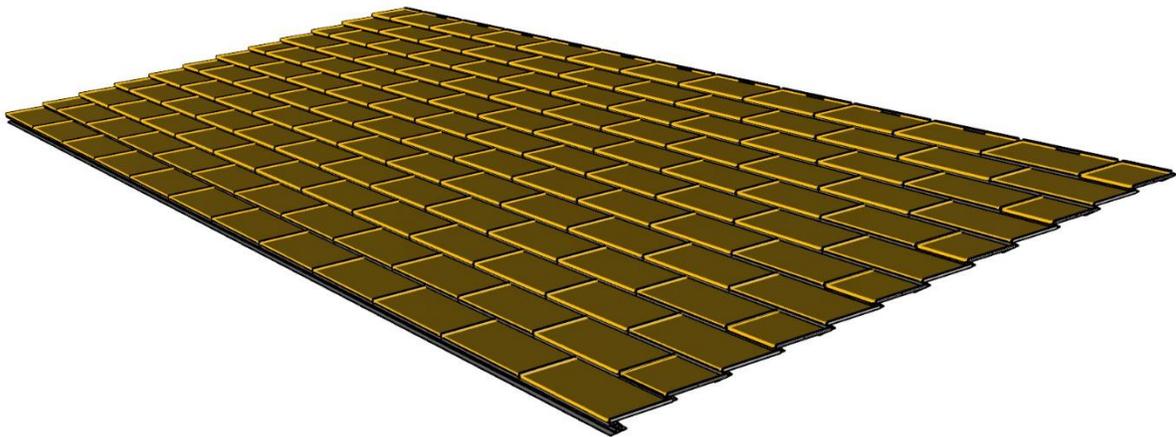
The roof seam design prevents rain and ice penetration from major storms and can **withstand hurricane sustained winds of 155 MPH** for 4 hours or more. It also provides a **waterproof connection** to flashing, trim and side aprons and enables easy disassembly. The tiles **anchor with stainless steel screws** - directly into the trusses and in hurricane locations two lag screws can be used to enhance stability of the roof. Anchors on outside rows need to be located at the edge for solar attachment to side aprons/skirts.



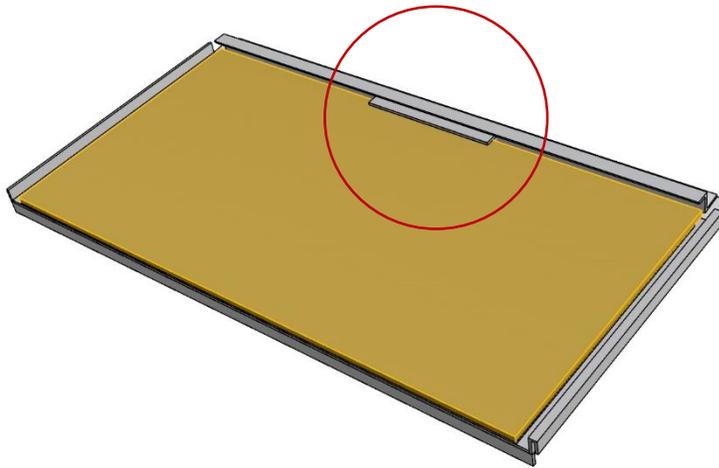
G-P LLC Quick Release 316 Stainless Locking Device with 316 stainless steel spring is designed to return into locked position and along with special steel fork devices used at the same time enables lifting of the tile assembly. **Maximum of three** separate solar tiles are need to be raised in order to access the roof and do the maintenance or repairs.



There are two options of roof pattern: **staggered solar tiles or vertical columns**. The roof comes in black thin film solar and black frame as a standard option, but with **dozens of different panel colors, including even white**, there is no limit when choosing how your roof should look.



The PVB membrane is **100% sealed** to the back of the solar module and to the sheet metal creating a very strong and moisture sealed connection. A boot of PVB stock will permanently bond the J-Box to the back of the solar module preventing any possible water penetration. J-Box location and positive and negative solar cables may be under the solar panel near the edge or on top edge as shown on design. The J-Box if at the top center edge of the solar tile is best protected by the design. If J-Box is located on back, center top of the solar tile, clearance is provided in the Sentry Glass PVB layer and a cutout for clearance in the sheet metal base.



Aprons, trims, skirts and aluminum extrusions encase the roof array so nothing over 5-6 mm in size can enter or exit the G-P Solar Roof System, yet ventilation is uniform between each module.

Solar Module Glass will heat up fast when the sun shines, quickly **melting and preventing ice dams and ice cycles** on the solar portions of the roof.

