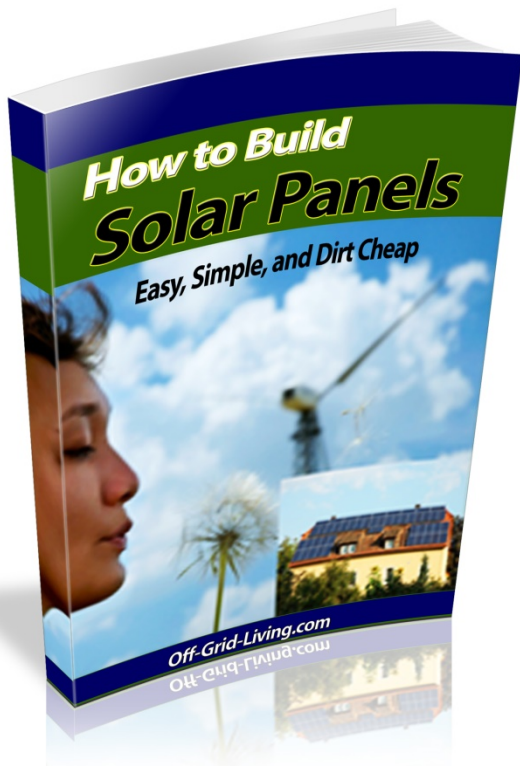


Off-Grid-Living

In An Urban and Suburban World



Lesson #14 ... Installing the Plexiglass

The Disclaimers, Legal Stuff and Butt-Covering Section:

Before attempting to build a solar system for your entire house, take my course "Home Energy Made Easy" Go here: <http://Off-Grid-Living.com> I'll give it to you for free for being a member of this course. Understanding the concepts in that course will save \$1000's of dollars when you go to build your system.

This is but one small section of a complete action plan for building solar panels dirt cheap. Which is one small section of a course on going off the grid in Urban/Suburban America. You can learn how to

- Grow your own food year around, no matter where you live.
- Slash your energy and living expenses by 50% or more.
- Create your own fuel
- Finding economical shelter
- Alternative methods of (Legally) making money
- How to live anonymously

Check out <http://Off-Grid-Living.com>

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Introduction

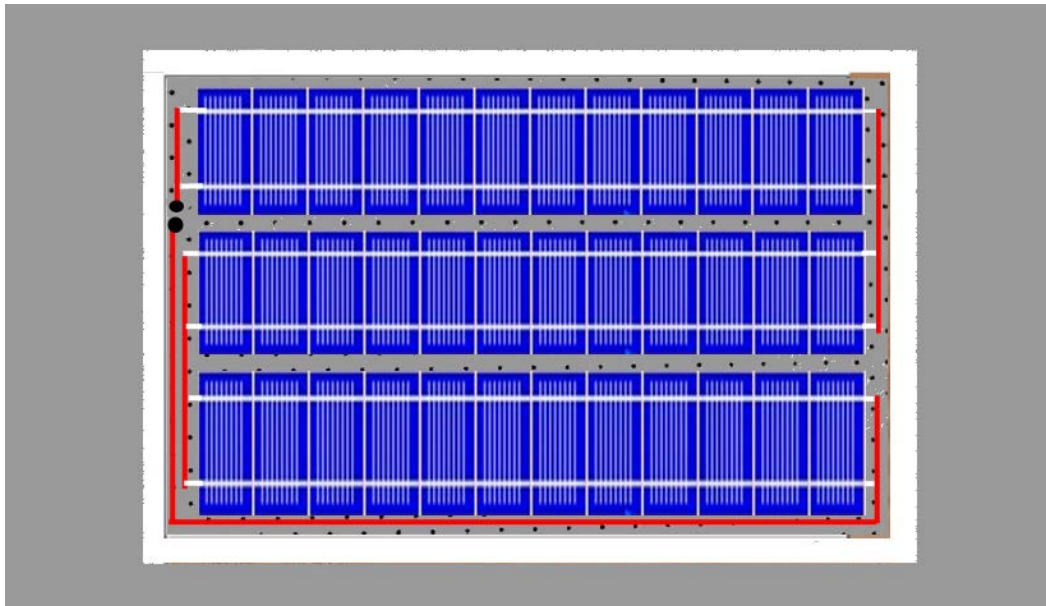
The most important thing to take away from this lesson is..

Installing the plexiglass is a simple procedure using basic hand tools.

The tools and material you'll need for this chapter are:

- Slyguard 184
- An old paint brush
- 2x4 sheet of plexiglass
- 4 hole straight brackets
- 4 hole L brackets
- Power drill
- Drill bit
- 1 inch wood screws
- Transparent silicone
- Caulking gun

OK, here we are where we left off

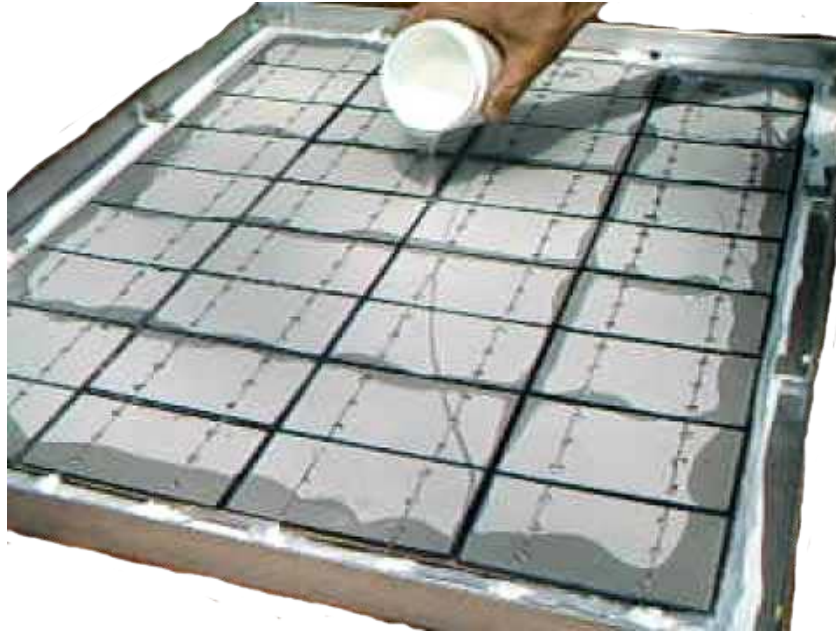


Take your plexiglass and put it somewhere near your work station.

Take all remaining tile spacers out.

How To Build Solar Panels

Optional step: What you're basically going to do is mix the Slyguard 184 together and use it to paint over the cells. Just pour it over the cells then spread it out with the paint brush.



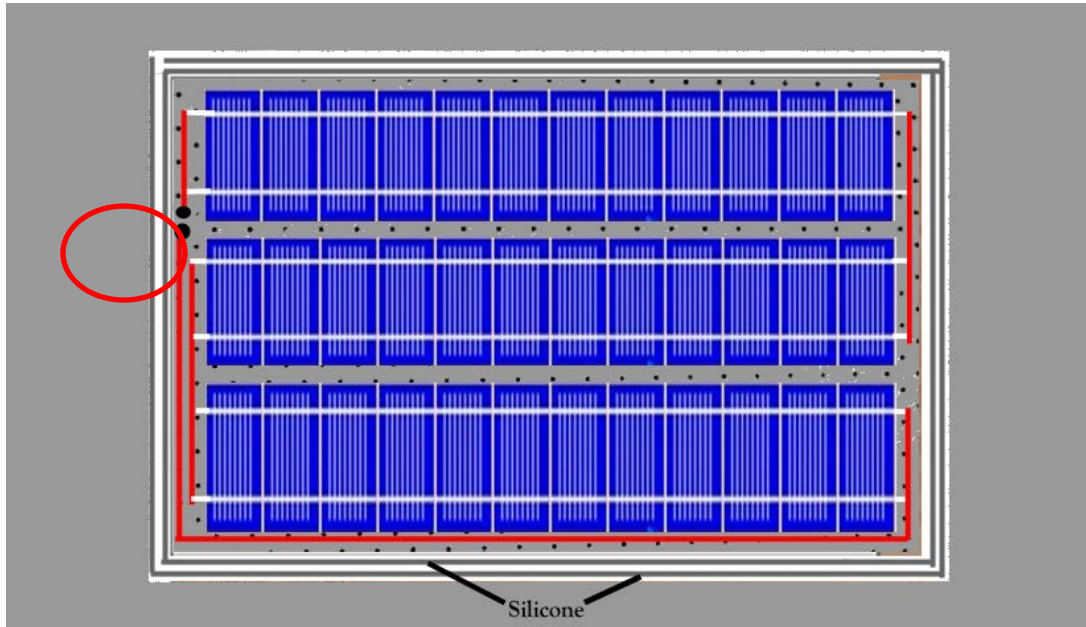
The reason why you might want to do this it is an extra step in making sure your cells stay waterproof. Even if your frame leaks, and it shouldn't, but age will take its toll, the Slyguard 184 should protect you.

The next step, if you applied the Slyguard 184 is to bring your solar panel out in the sun, test it again to make sure your getting the proper amount of voltage, and let it sit out in the sun for a few days to let the Slyguard 184 harden.

After a few days, you're ready to install the Plexiglass over your panel.

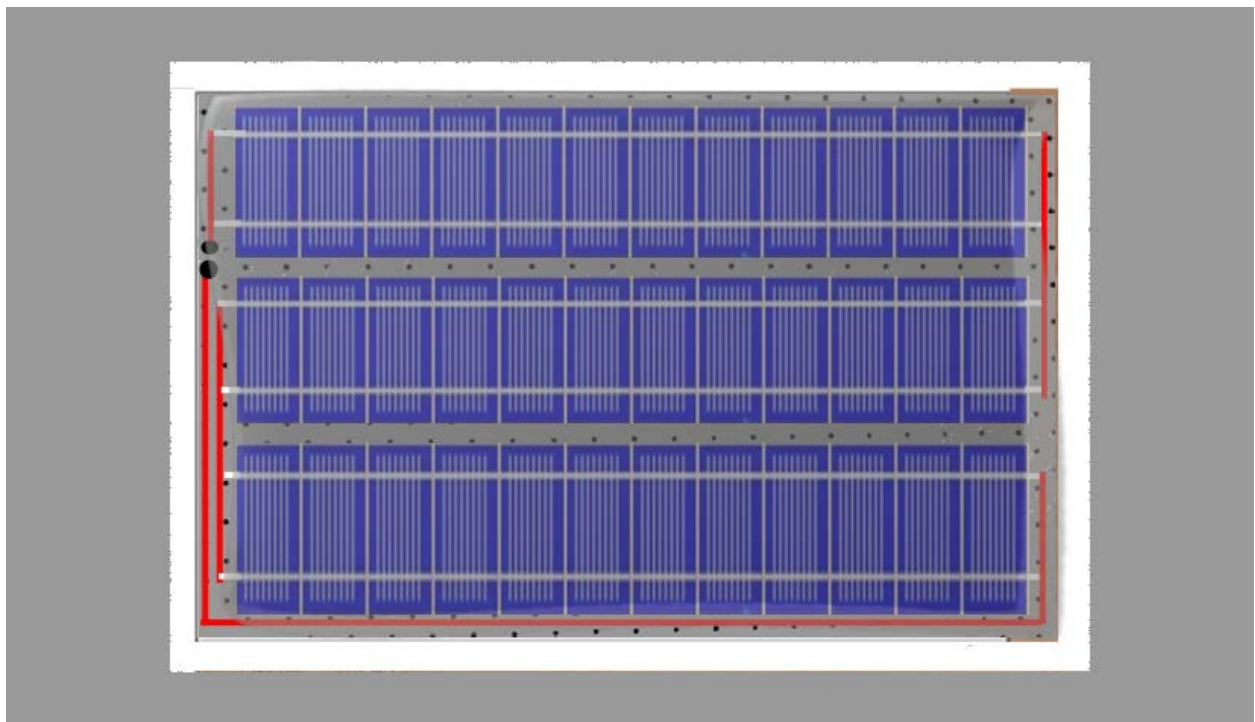
How To Build Solar Panels

Apply 2 full line of silicone around the lip of your of your panel frame.



Also fill in the two holes where the bus wire exits the frame with silicone.

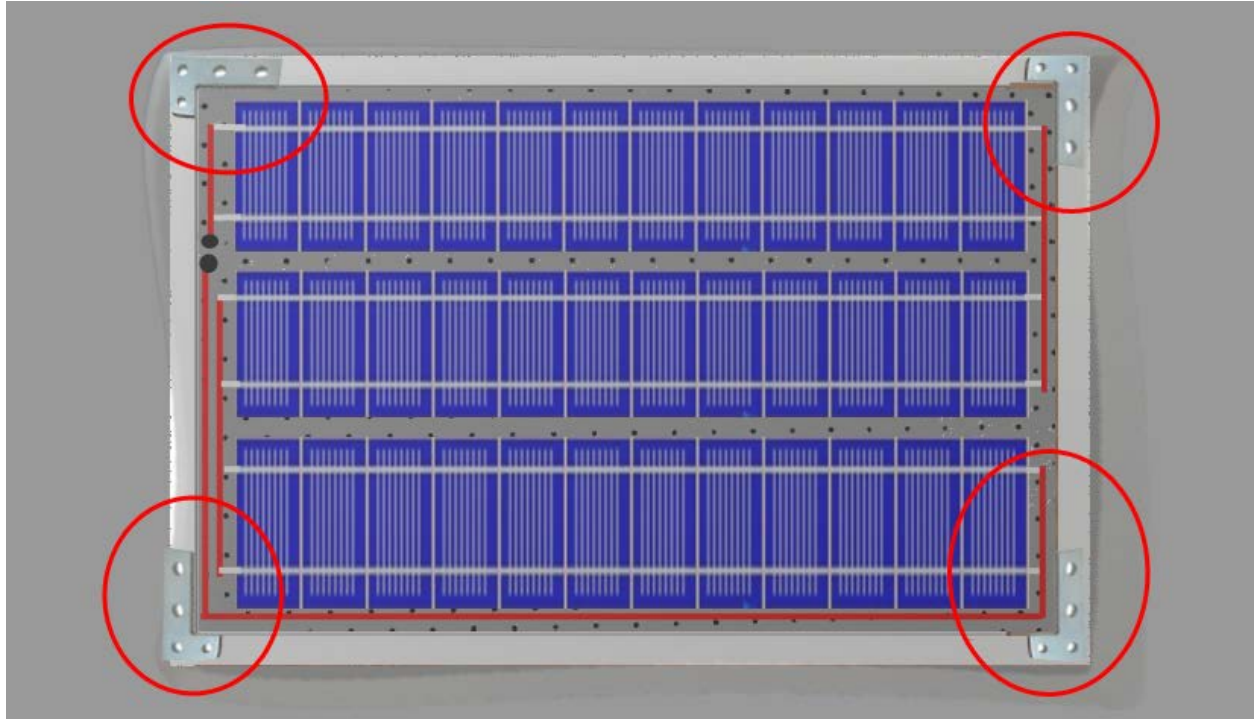
Immediately after applying the silicone over the panel frame, put the Plexiglass directly on top. Be sure it is as even as possible.



How To Build Solar Panels

You should have your plexiglass sitting on top of your frame. Wipe off any excess silicone around the edges.

Take your L brackets and position them on the corners of the frame.

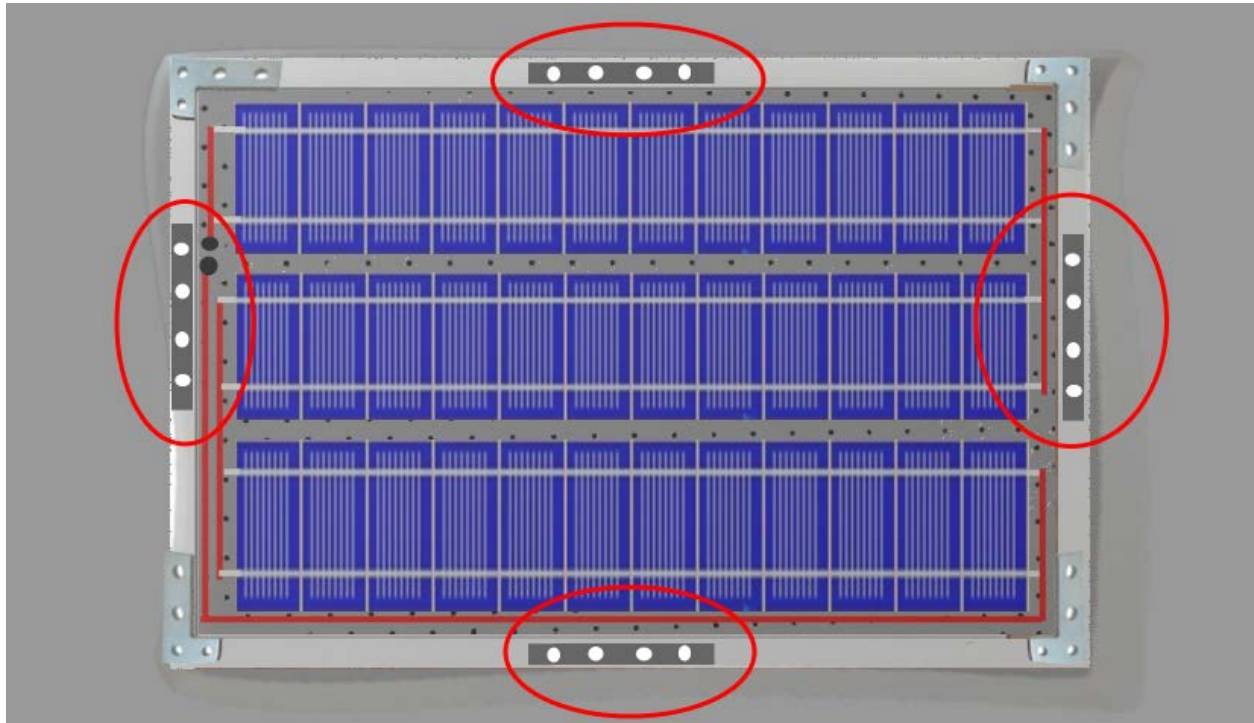


Attach an appropriate drill bit to your drill. You might want to mark your holes to begin with, or use the brackets themselves as a guide and pre-drill your holes. Drill at a slow speed while drilling through the plexiglass to avoid cracking it. Drill through the plexiglass and $\frac{1}{4}$ inch or so into the wood frame.

Start by manually screwing your 1" wood screws into the L bracket. Once it starts to stick, use the power drill to finish. Screw it down tight but not so tight it cracks the plexiglass.

How To Build Solar Panels

Now add your straight brackets, mark, pre-drill, and screw them down



Once you have everything screwed into place, take the silicone and apply silicone all around the perimeter of the frame. Look for any gaps where water might leak in and fill in any gaps.

PS...Don't forget you can get personalized coaching at Off-Grid-Living.com/
For some this is the ideal way to get hands on experience as well as personal attention needed to make this work for you.

Coming Up Next ...

Lesson #15: "Installing the Junction Box"

In the next lesson we'll be installing the junction box and completing your solar panel.