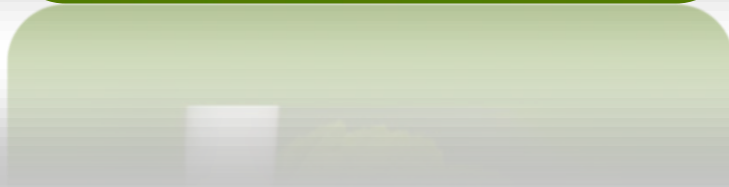


BUILDING SOLAR PANELS

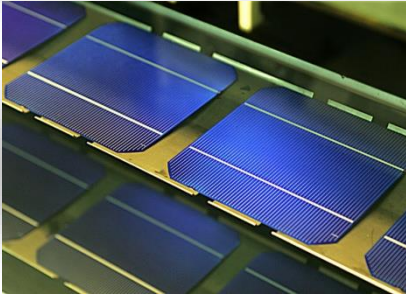
LIST OF MATERIALS



Here are the necessary materials for your solar project:

(with informative prices)

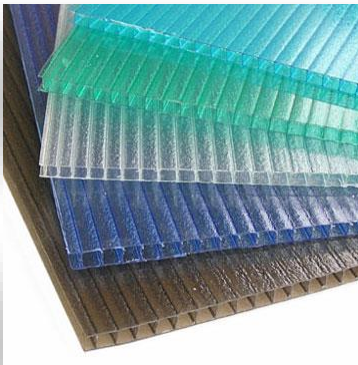
1. **Solar Cells 12.5 by 12.5 cm**– up to \$3.00/piece on [eBay](#)



2. **Glass sheet 4mm thick (126x56cm)** – provides layout for the Solar Cells combined to create stringers



3. **Polycarbonate cover 8mm thick (126x56cm)** - covers the cells and protects your panel from the elements



Up to \$20/piece on [eBay](#)

4. **Sticky paper** – sticks the solar cells to the glass



5. Sponge Flooring – protects the solar cells



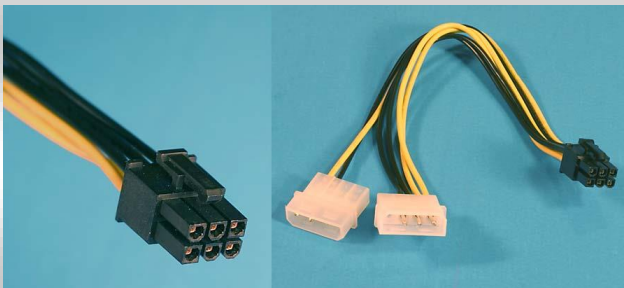
Up to \$0.12/sf on [eBay](#)

6. Cable 3 amps – used for exit wires and to connect the solar panels



Up to \$1/m on [eBay](#)

7. Connectors – for the end of the exit wires



8. Stainless steel screws 5mm – used to keep the junction box in place



9. **Junction box** – houses the connections between the solar panels



Up to \$3 on [eBay](#)

10. **Aluminum "C" channel 2 by 2 cm** – frames your PV panel

Up to \$30.00/piece of 12ft on [Amazon.com](#)



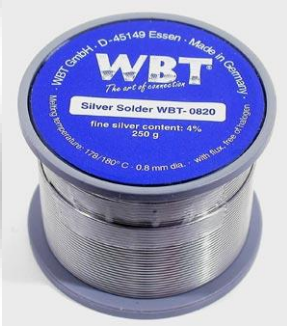
11. **Tabbing wire** - connects the solar cells together. It is used in coordination with the solder iron or solder gun and melts easily to connect to the solar cells. You will need two different sizes of wire with the thinner wire being used to connect each cell together and the thicker wire used to join the different rows of cells together.

Up to \$12.00/roll on [eBay](#)



12. **Solder** - attaches the copper wire to the back of each solar cell. It may also be needed to hold down some of the tin coated wire that does not stay down on its own.

Aprox. \$1.00/roll on [eBay](#)



13. **Silicon** – seals the aluminum profile. The black one is used to seal the holes on the roof

Up to \$7.00/tube on [Amazon.com](https://www.amazon.com)



14. **Flux Pen** - applies fusion to the PV cells and tinning wire so the solder will adhere to the tabbing wire PV cells

Up to \$4.00/piece on [eBay](https://www.ebay.com)



15. **Rectangular pipe 4 by 3 cm** – to mount the panels on the roof



Up to \$20/piece on [eBay](https://www.ebay.com)

16. **Self drilling screws 7cm long** – to mount the rectangular profile on the roof



Where can you find all the materials that you need at LOW PRICES?

Here's a list:

- [eBay](#) (and for solar cells go [here](#))
- [Amazon](#)
- [Energy Bay](#)
- [Home Depot](#)
- [Dollar Store](#)
- [Habitat Restore](#)