





The SolarSheat 1500G/1500GS/1501GS – Flush Roof Mount Installation Manual

By Your Solar Home, Inc.

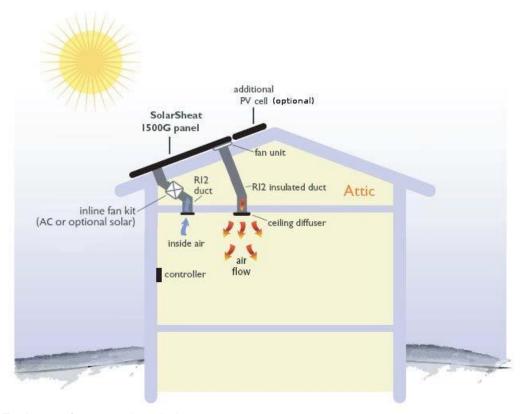
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All building, plumbing, electrical, and safety codes supersede the instructions in this manual. The manufacturer assumes no liability for improper installation. Use this manual at your own risk.

This installation manual describes the flush roof mount installation of the 1500G, 1500GS, and 1501GS.

How it works: The SolarSheat 1500G panel heats inside air. The amount of heat produced is based on the volume of air passing through the solar panels and the degree of sunshine. The inline fan kit can be powered by an AC/DC wall adaptor or with an additional PV cell, to keep it off the grid.

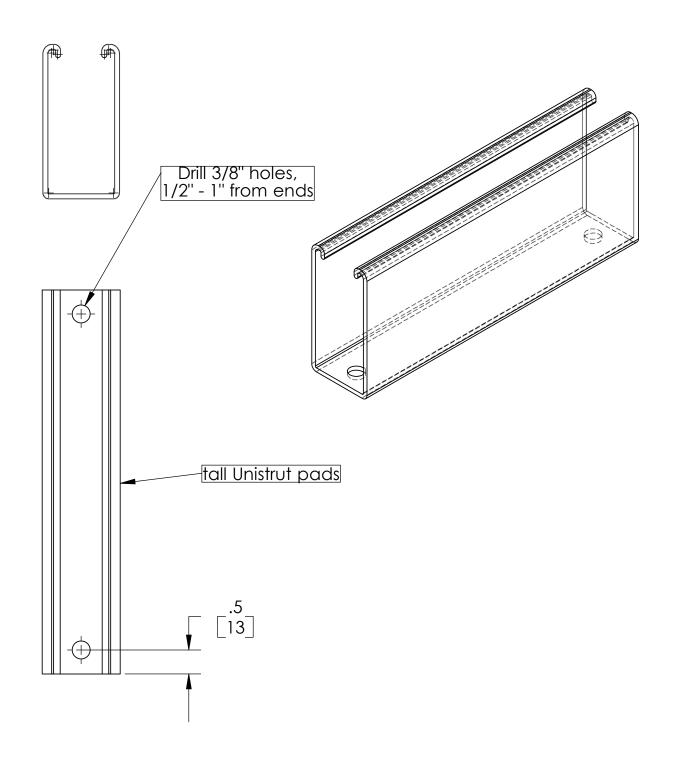
Roof Mounting - SolarSheat 1500G



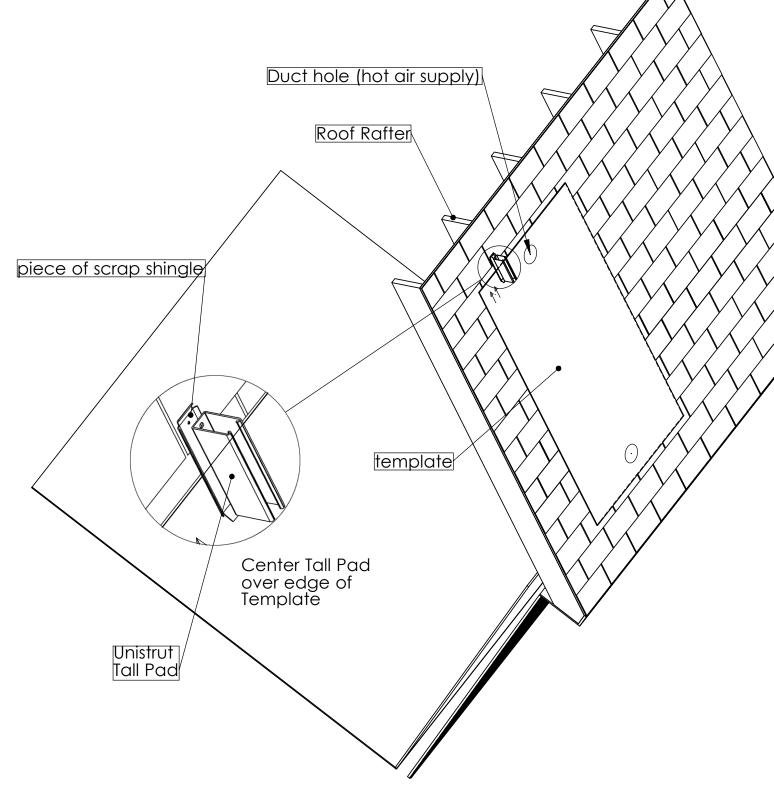
Equipment for proper installation:

- jig saw bi-metal blade if necessary, for ducts' holes
- Drill
- 3/8" metal drill bit for tall unistrut pads
- 3/16" drill bit for pilot holes for 3/8" lag bolts
- prying tool for shingles
- Socket (square) driver bit for wall grill screws (if applicable)
- 9/16" hex socket driver for 3/8" lag bolts
- Utility knife for cutting template and shingles
- Small flat head screw driver for thermostat's wire terminals
- Metal strapping for securing duct to roof rafters
- Wood screws for screwing metal strapping to roof rafter
- Self drilling #8, or #10 x ¾" for screwing collars to Solarsheat and metal strapping to duct
- Tape for taping the template on the roof
- Outdoor sealant high quality outdoor silicon and outdoor polyurethane sealant
- Caulk gun
- Measuring Tape
- Level
- Clean rags temporarily needed to plug up duct only to stop drywall/wood dust from
 entering collector if house is under construction, turn off thermostat. Remove rags from
 duct & turn on thermostat when construction is complete & construction dust has been
 cleaned up.
- Ducting (type, size, & length depends on individual situation)

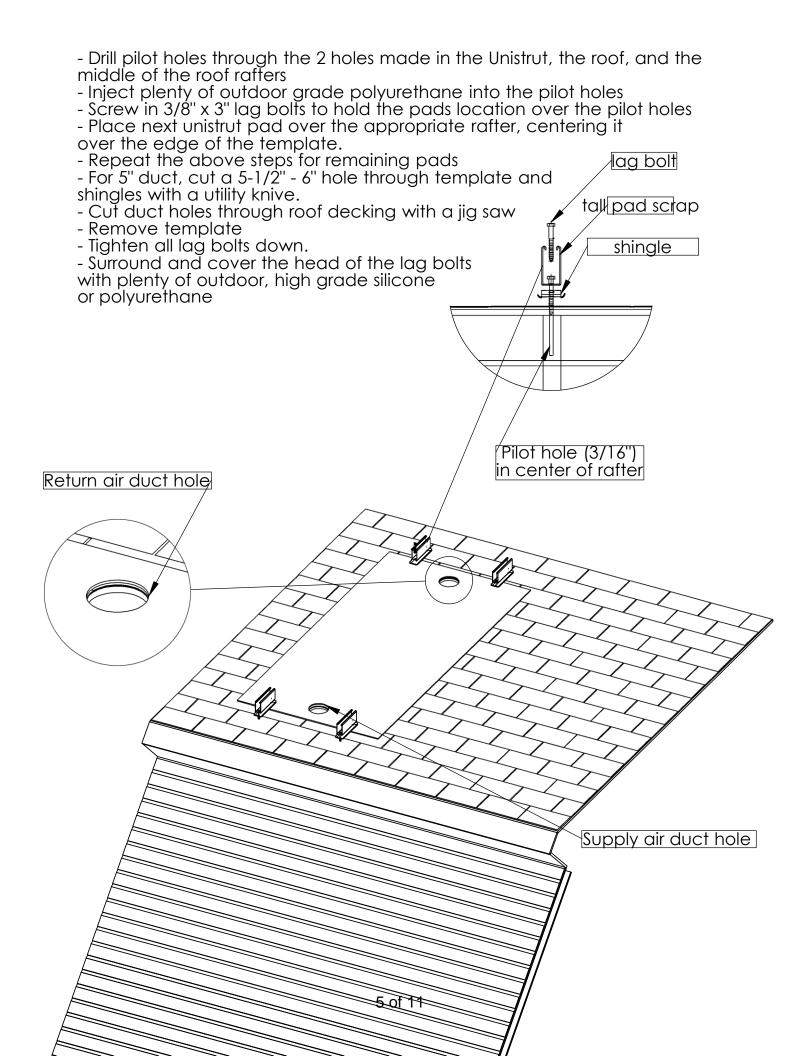
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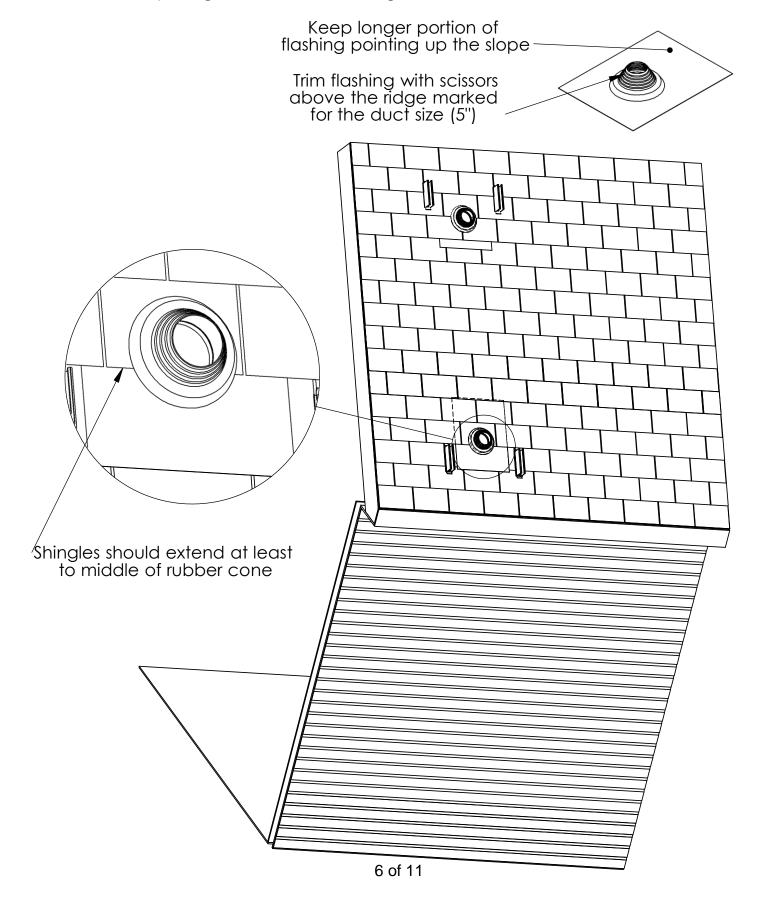
- Drill all tall Unistrut pads



- Collector can be installed "landscape" style as well as "portait", as shown
- Find roof rafters
- Locate SolarSheat duct holes shown on template between roof rafters
- A SolarSheat 1500G should be mounted with PV section on top
 A SolarSheat 1500GS or 1501GS does not have a PV section, nor do they have a top or bottom, and can be mounted in any direction
- Be careful of electrical wires or other obstructions
- Tape template temporarily to roof
- Place a Unistrut tall pad over the edge of template
- Slip a piece of scrap shingle under the Unistrut tall pad this can help reduce wear on the shingle(s) below the Unistrut tall pad.



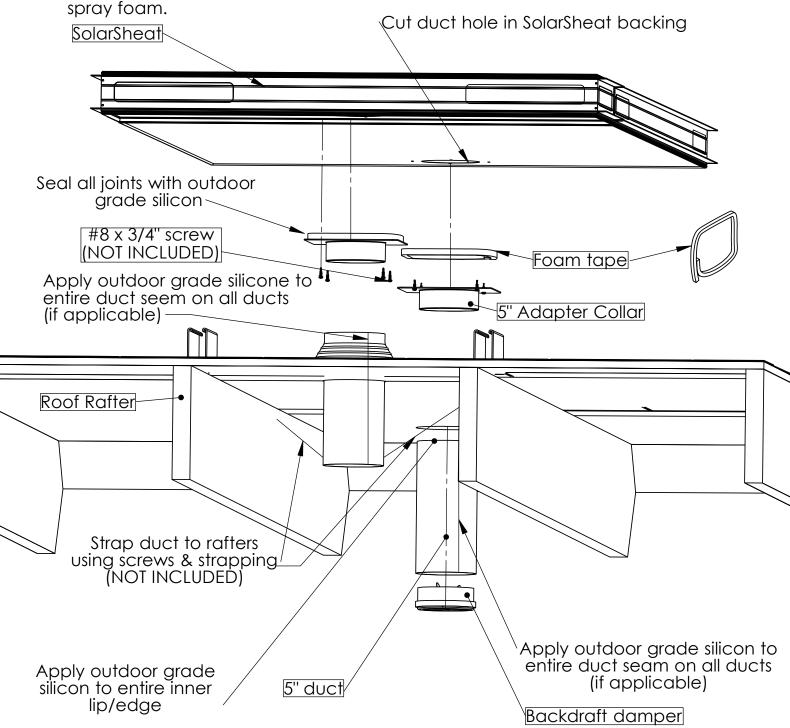
- lift shingles above each duct hole enough to slip flashing under.
 double check flashings' location by placing template's holes over flashing, before nailing.
- nail flashing down
- cover nails with outdoor grade polyurethane/roofing sealant lay shingles back over flashing

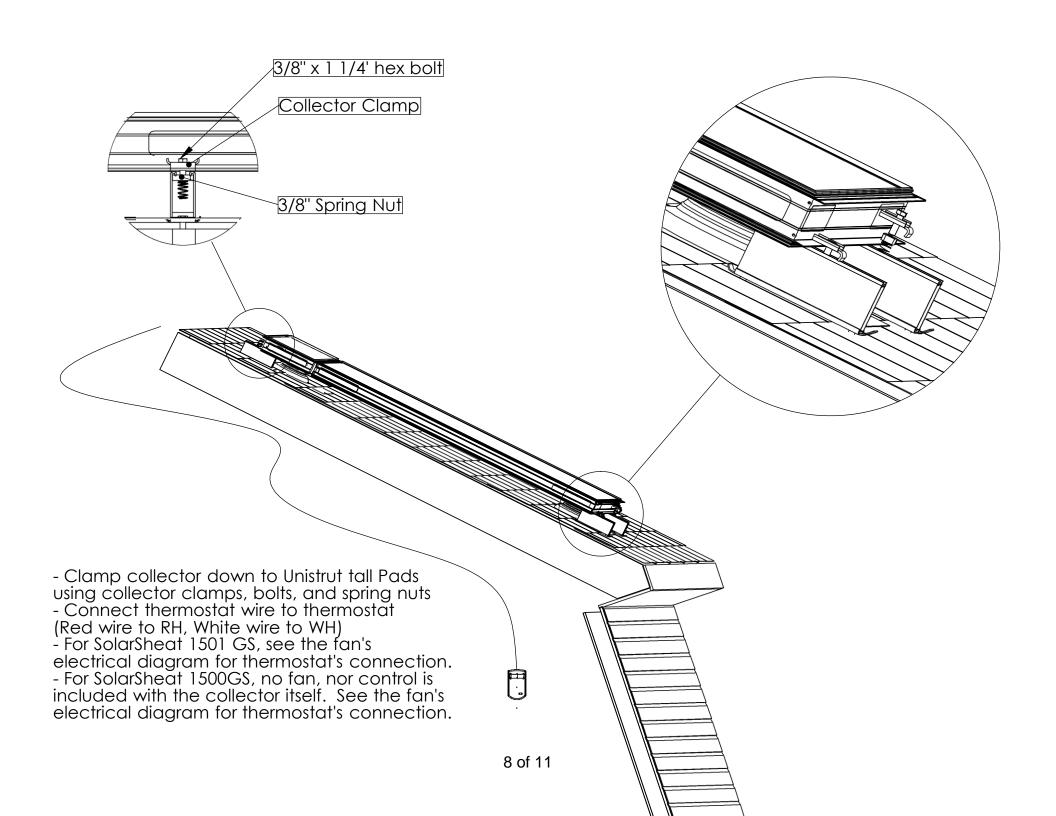


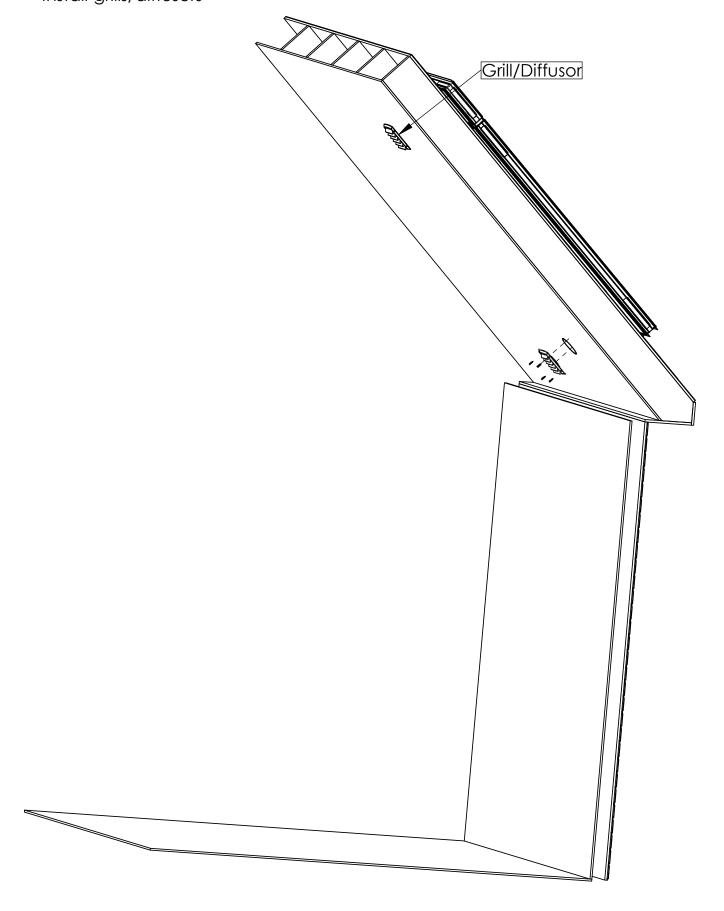
- Cut holes in SolarSheat backing insulation using a knife

- Install Duct Kit as shown below (for cathedral ceilings, if the distance between the interior drywall surface-to- exterior roof surface is greater than ~7", longer lengths of duct will be needed)

-For a SolarSheat 1500G, run thermostat wire through nearest passive roof attic vent, cut hole in screen (if applicable), and fasten to roof rafter inside. Alternatively install a "goose neck" flashing and run thermostat wire through it, sealing with spray form

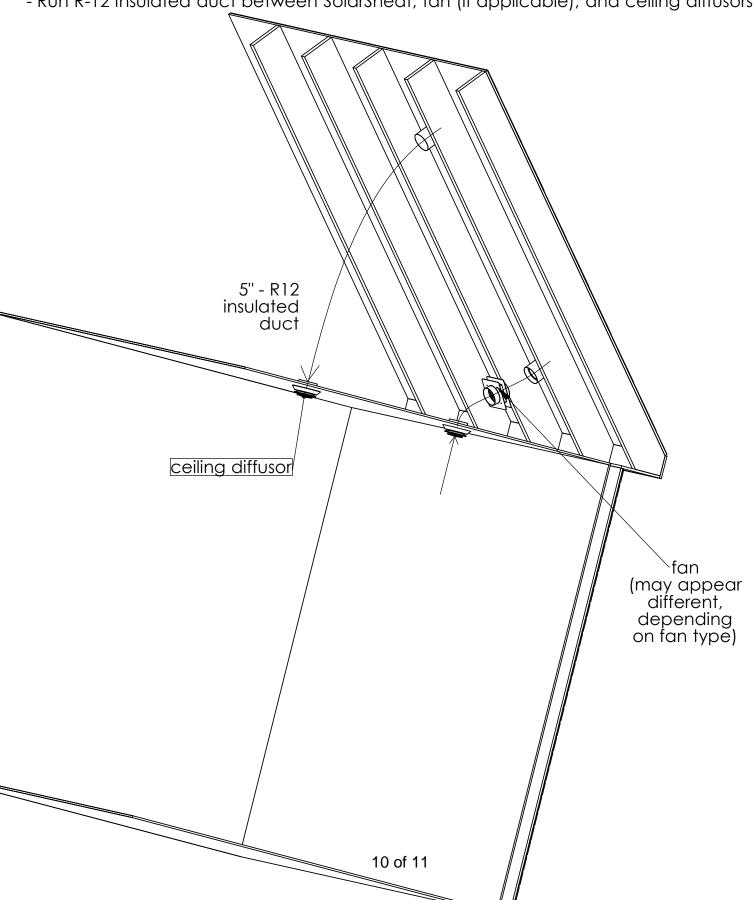


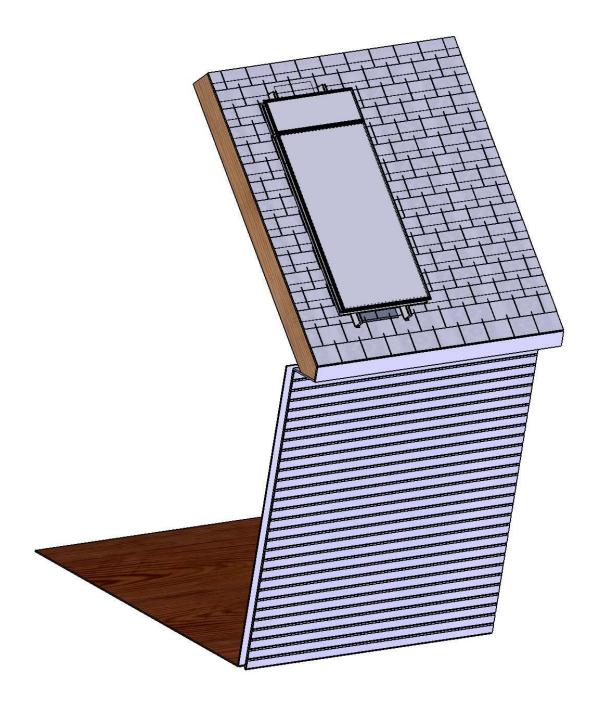




For Attics:

- For the SolarSheat 1500G, an Inline fan is needed when total duct length is more than ~6'.
- All fans should be located next to Solarsheat intake duct. This way it will
 "push" air through Solarheat(s) so as to help lengthen fan life
 see electrical diagram(s) for the fan's electrical connection
 Run R-12 Insulated duct between SolarSheat, fan (if applicable), and ceiling diffusors





Congratulations. You have installed the SolarSheat 1500G, 1500GS, or 1501GS on your roof.