

Solar Attic Fan Installation Quiz

- Where should the fan be installed?
 A. Anywhere B. Centered on the roof C. On the South side
- What is the size of the stainless steel screws that are used?
 A. #8 x 1.25" B. #6 x 1.5" C. #12 x 2"
- How many feet down from the roof ridge should the center of the fan be installed?
 A. 4 feet B. 1 foot C. 2 feet
- If rafters are located, 24" on center how big is the hole that must be cut to ensure proper installation?
 A. 19" B. 14" C. 21"
- How long should it take to install a solar attic fan?
 A. 3 hours B. 2 hours C. 1 hour
- If possible should you try to install the unit between rafters?
 A. Yes B. No. C. N/A
- What is the best exposure for installation of a solar attic fan?
 A. Northern Exposure B. Southern Exposure C. Doesn't Matter
- The directions say to hammer a nail somewhere between the rafters. Where?
 A. Center B. Left C. Right
- The directions say to attach a string to the nail and to attach a marking pen to the end of it. For a 19" hole, how many inches of string should be used?
 A. 10" B. 9.5" C. 9"
- The directions say to attach a string to the nail and to attach a marking pen to the end of it. For a 14" hole, how many inches of string should be used?
 A. 7" B. 9" C. 6.5"



11. For the 19" hole, how big should you scribe a circle on your shingles?

- A. 18" B. 20" C. 19"

12. For the 14" hole, how big should you scribe a circle on your shingles?

- A. 14" B. 14.5" C. 13.5"

13. If the rafters are 16" on center, you have two options of what size hole to cut. What are they

- A. cut a 14" hole between the rafters or cut a 19" hole cutting the rafter
 B. cut a 14" hole between the rafters or cut a 19" hole with the roof rafter running through the cut hole
 C. cut a 19" hole

14. If rafters are 24" on center, where should the fan installed with regard to the rafters?

- A. On them B. Close to them C. Between them

15. What type of saw is permissible for use in cutting a hole in the roof for solar attic fan installation?

- A. Chop Saw B. Reciprocating saw C. Razor knife

16. For a 19" hole, the directions state that with a razor knife to cut a slit through the shingles and tarpaper. How big should the slit be cut at?

- A. 6 inches B. 3 inches C. 4 inches

17. When cutting the slit through the shingles and tarpaper at which positions?

- A. 3 and 9 o'clock B. 3 and 6 o'clock. C. 3 and 12 o'clock

18. Why is cutting the slit at the correct positions important?

- A. This allows for the footprint of the flashing to be inserted over the shingles
 B. This allows the footprint of the flashing to be inserted under the shingles
 C. Doesn't really matter



19. When cutting a 14" hole, additional shingles may need to be removed where to allow the flashing to slide over the hole?

- A. Low side B. High side towards the ridge C. Right side

20. The directions state to insert the reciprocating blade sideways at what position to start cutting roofing nails?

- A. 6 o'clock position B. 9 o'clock position C. 3 o'clock position

21. Therefore, once you have inserted the saw blade inside the hole at the correct position, when cutting the roofing nails which way are you supposed to cut the nails?

- A. down B. doesn't matter C. up

22. As you are cutting the roofing nails at what position do you stop with the saw blade inside the hole?

- A. 9 o'clock B. 6 o'clock C. 12 o'clock

23. What is the overall reason of removing the nails?

- A. This allows the flashing footprint to slide up underneath the shingles
 B. This allows for the flashing footprint from sliding up underneath the shingles
 C. We don't need to remove the nails

24. You now need to use the caulking that is provided in the box. The directions say to apply the caulking where in regards to the flashing?

- A. The underside B. over the top of the flashing C. Everywhere

25. How many rings of caulking are sufficient when applying caulking?

- A. 3 B. 1 C. 2

26. In what direction should you apply the caulking?

- A. in a random manner B. Doesn't matter C. In a concentric manner

27. How do you adjust the solar panel on the top of the solar attic fan?

- A. remove the screw on each side of the solar panel bracket
 B. it is not adjustable
 C. leave it flat



28. Is it really important to adjust the solar panel?

- A. Yes B. No C. Doesn't matter

29. Why is it important to adjust the solar panel on top of the solar attic fan?

- A. so that it is secure
 B. So that it won't fall off
 C. so that it will collect the most sunlight during the day

30. How do you secure the screws that are on each side of the panel?

- A. glue them in
 B. simply reinsert them and tighten them to the desired position
 C. No need to secure them

31. When putting the solar fan on the roof, where do you slide the flashing in relation to the tarpaper and shingles?

- A. over the tarpaper and shingles
 B. Doesn't matter
 C. under the tarpaper and shingles

32. How does the flashing come into contact with the raised portion of the flashing?

- A. they simply come in to contact
 B. you apply force so that the flashing comes into contact with the flashing
 C. Doesn't come in contact

33. At this point in the install, where will the bottom part of the flashing be in relation to the shingles?

- A. you won't see the bottom part of the flashing
 B. It will be on top of the shingles
 C. It doesn't matter



34. Now the directions state that you must use 4 of the Phillips head screws that are provided in the box to secure the fan to the roof. Where in relation to the clock are they to be installed?

- A. 2 o'clock, 4 o'clock, 7 o'clock and 12 o'clock
- B. 3 o'clock, 6 o'clock, 9 o'clock and 12 o'clock
- C. 1 o'clock, 2 o'clock, 3 o'clock and 4 o'clock

35. When securing the screws to install the product what is the actual way that they should be installed?

- A. The 3 and 9 o'clock position screws should be on top of the shingles and the 6 and 12 o'clock position screws should go under the shingles
- B. It really doesn't matter so long as the screws are used to secure the product to the roof
- C. The 3 and 9 o'clock position screws should go underneath the shingles and the 6 and 12 o'clock position screws should go on top of the shingles

36. At what positions in relation to the clock should you caulk over the screw heads since they will be exposed to the weather?

- A. 3 and 9 o'clock
- B. 3 and 12 o'clock
- C. 6 and 12 o'clock

37. You should then have some caulk remaining in the tube. What is the recommended application for the remnants to ensure a watertight install?

- A. seal the area where the 4" slits were made and around the area where the shingles meet the raised area of the flashing
- B. It should be sealed by now
- C. Anywhere

38. What is the gauge of the housing and flashing of the attic fan?

- A. .050
- B. .070
- C. .080

39. What type of flashing is used for tile installations of solar attic fans?

- A. Paper Membrane
- B. Aluminum Membrane
- C. Flashing Skirt with Rubber membrane

40. In tile installation, how many tiles do you remove for attic fan installation?

- A. 20
- B. Enough Tiles to accommodate flashing skirt
- C. None



41. When you are handling the solar attic fan, how do you prevent the PV panel from getting damaged?

- A. Turn it upside down and place it on a soft cloth or towel
- B. It won't get damaged
- C. There is no way to prevent the PV panel from getting damaged

42. One of the many concerns that exist when installing a solar attic fan to a tile roof is that there piece of wiring that is hanging free. How do you make sure that it is not dangling about?

- A. Tape it to the inside of the flashing
- B. It should hang free as it is
- C. Locate the plastic wire clip on the inside of the flashing. Remove the screw on the clip to remove it from the flashing, as the wire will stay connected to the clip

43. When installing a solar attic fan to a tile roof it is mandatory to remove the housing from the flashing. There are screws that secure the housing to the flashing? How many of the screws are there?

- A. 4
- B. 5
- C. 3

44. These screws are not visible when looking at the unit. How do you find where they are so that you can take the unit apart?

- A. It is not necessary
- B. Unit can't be taken apart as it is one piece
- C. Remove the two screws on the aluminum brackets on top of the housing holding the solar panel. Pull up the solar panel to allow access to the screws that secure the housing to the flashing L brackets

45. When the housing and flashing are reattached, how do you ensure that the two parts of the system line up?

- A. It is not important, as the system is the same all around
- B. With a marking pen make two marks on the unit as one is on the housing and another on the flashing that lines it up with the housing
- C. Just get lucky



46. Is the fan attached to the housing or the flashing?

- A. Flashing B. Housing C. It is not attached to anything

47. The directions state that the fan will continue to run once the housing is removed from the flashing. How do you keep the fan from running?

- A. It can't be stopped
 B. It will stop on its own
 C. Cover the PV panel with a soft cloth or piece of cardboard

48. Regardless of whether or not you cut a 14 or 19" hole the attic fan must be installed to the roof. In tile roof applications, how does the flashing attach to the roof?

- A. Cut the rafters
 B. Use as much caulk as necessary
 C. Center the flashing over the hole and mark the flashing footprint onto the furring strips. Remove the portion of the furring strips where the flashing will be installed.

49. Where does the flashing sit with respect to the roof sheathing?

- A. It sits directly on the roof sheathing
 B. It replaces the roof sheathing
 C. It is simply placed under the roof sheathing

50. The flashing skirt that is used in tile roof installs has to be attached to the flashing on the attic fan. How is it attached?

- A. It falls into place B. Press down the rubber ring around the flashing C. N/A

51. When reattaching the housing to the flashing in tile installs there is a procedure that must be adhered to do this properly. How do the two parts reattach?

- A. The housing slides onto the flashing
 B. There is nothing to be reattached
 C. replace the screws that were removed



52. In tile installations, when installing the unit to the roof, is it necessary to pre drill the holes to attach the unit to the roof?

- A. No B. Yes C. Doesn't matter

53. There are (6) screws that are provided in the box for installation. The problem, however, is that the flashing skirt used in tile installs is in the way. How do you secure the screws to the roof without the flashing getting in the way?

- A. You drill through the skirt
 B. It doesn't get in the way
 C. Simply bend it or roll the flashing skirt up until all 6 screws are secure

54. When tiles are reinstalled to the roof after the unit is secure to the roof. Which tiles are reinserted first?

- A. The one on the bottom
 B. The ones at the high side of the roof towards the ridge
 C. Doesn't matter as they all have to be reinstalled

55. There may also be an issue with the tiles that are reinstalled in a tile installation as they may no longer be secure to the roof. What additional step may be necessary to support the tiles?

- A. They will be secure
 B. There is no way to determine how secure the tiles are
 C. You may need to replace some furring strips may need to be replaced on top of the flashing footprint to support the tiles

56. When installing a solar attic fan into tile roofs, do you have to cut the tiles to fit around the flashing?

- A. Yes B. No C. N/A

57. When replacing the tiles on the low side of the roof in a tile roof install for solar attic fans, is the flashing skirt above or below the tiles?

- A. Above B. Below C. It doesn't matter



58. How do you make the skirt fit around the tiles in a tile roof install of a solar attic fan?

- A. It simply fits around the tiles
- B. It won't line up
- C. You need to reshape the skirt to form around the tiles

59. For curb mount installations of solar attic fans a curb must be used. It is something that you must assemble prior to installation. What material do you use to make this?

- A. Aluminum
- B. Copper
- C. Pressure Treated Lumber

60. When building the curb for curb mount solar attic fan installs what size material is acceptable to be used?

- A. 2"x6" or 2"x4"
- B. 2"x6" or 2"x8"
- C. 2"x6" only

61. The curb on curb mount installations of solar attic fans must be secure on all four corners of the material that is used. What type of fasteners are acceptable?

- A. Tap Cons
- B. Wood Screws or galvanized nails
- C. dowel rods

62. For curb mount solar attic fan installs, where do you install the solar attic fan?

- A. Doesn't matter
- B. at an area that is between the trusses
- C. Northern exposure

63. Is it necessary to center the curb over the space between the trusses in curb mount solar attic fan installations?

- A. Yes
- B. No
- C. N/A

64. Is it ok to install a curb mount solar attic fan when the weather is inclement?

- A. Yes
- B. Doesn't matter
- C. No

65. You may also need some additional roofing material when installing a curb mount solar attic fan. What type of material is acceptable?

- A. Doesn't matter
- B. needs to match the existing roofing
- C. Brick



66. In curb mount solar attic fan installation, how does the curb attach to the hole that you cut in the roof?

- A. It doesn't fit there
- B. Place the curb over the opening and toenail into existing roofing using galvanized nails
- C. You do not need to cut a hole

67. What could potentially be required to do to make sure that the curb is properly secure?

- A. Caulk Flashing provided with product
- B. It will be secure so don't do anything additional
- C. You may need to use the same building material that is what the roof is to make the curb secure

68. In curb mount solar attic fan installation how do you prevent the curb from leaking?

- A. It is sealed
- B. there is no way to prevent the curb from leaking
- C. wrap the curb with roofing material to prevent leaking

69. How do you attach the solar attic fan to the curb in curb mount installations?

- A. Caulk it
- B. It sits over the curb
- C. use the screws that are provided as you pre drill the holes on the solar attic fan curb lip

70. There is an optional thermal switch option that is available for the solar attic fan. What is it designed to do?

- A. It is designed to turn on when the temperature reaches 80 degrees and shut off when the temperature drops to 60 degrees
- B. It is designed to turn on when the temperature reaches 80 degrees and shut off when the temperature drops to 70 degrees
- C. It is designed to turn on when the temperature reaches 120 degrees and shut off when the temperature drops to 32 degrees



71. When the solar attic fan is installed which way should the thermal snap switch be hanging?

- A. in an up position B. doesn't matter C. In a down position

72. There are 2 different wires on both the solar attic fan and the thermal switch. What color are they?

- A. Black and green B. Black and white C. Black and red

73. How do the two thermal wires attach to the two solar attic fan wires?

- A. You install dissimilar colors to each other
 B. You attach the same color wires to each other
 C. You need an electrician

74. When installing a solar attic fan in a gable mount installation, is it ok to install it when it is raining?

- A. Yes B. Doesn't matter C. No

75. When installing a solar attic fan gable style where must the fan be installed?

- A. Outside the gable
 B. It is caulked to the framing members
 C. It is installed between the studs in the gable area

76. What do you do if the gable opening is larger than the fan unit shroud?

- A. Don't worry about as it is no problem
 B. It has nothing to do with the install
 C. the excess opening must be blocked

77. When the gable fan is installed inside the attic which way should the motor be facing?

- A. Towards the attic B. Towards outside C. Does not matter

78. The solar attic fan installation box provides wood screws to attach the shroud to the studs. How many are provided?

- A. 14 B. 10 C. 16



79. Is it necessary to attach all of the wood screws provided to attach the shroud?

- A. No B. Yes C. N/A

80. What is the biggest area of concern when attaching the PV panel to the roof?

- A. It can go anywhere on the roof even where the sun doesn't shine
 B. Position it where it will receive the most sunlight
 C. No concern

81. Can you install a solar attic fan gable style onto a tile roof?

- A. Yes B. No C. N/A

82. The product provides you with L style brackets to install the PV panel to the roof. How many are there?

- A. 4 B. 3 C. 2

83. To attach the solar panel to the L brackets there are a certain type of screws that are used to attach them together. What type of screw is it?

- A. Lag screws B. Tap Cons C. self-tapping screws

84. When attach the L bracket to the Solar panel How do you screw the screws to the panel?

- A. You pre drill holes and then screw the screw through the bracket to the panel
 B. You attach the screw to the already from factory pre drilled holes into the Panel
 C. You glue it

85. Do you attach the L Brackets to the long or short side of the panel?

- A. Short Side B. Long side C. N/A

86. If installing the L Brackets to a shingle roof using what type of screws?

- A. Tap Cons B. Plastic Sleeves C. Machine Wood Screws

87. How many of the screws that are used to attach the L brackets to the roof when installing into shingle roof is there provided in the box?

- A. 2 B. 6 C. 4



88. When installing the L Brackets into tile roofs in gable installations of solar attic fans, how do you attach the provided anchors to the tile roof?
- A. You drill them in
 - B. You pre drill holes in tile to accommodate the anchors provided
 - C. You cannot install into tile with solar attic fans
89. How many anchors are provided in the box for tile roof installs when installing a gable attic fan into tile?
- A. 6
 - B. 0
 - C. 4
90. For shingle roof installs of gable attic fans, how do you ensure that there will be no leaking around where the wood screws are screwed into the roof?
- A. There is no way to prevent leaking, as it will occur
 - B. Caulk around the wood screws to prevent leaks
 - C. We cannot avoid leaking
91. How do you secure the L bracket anchors to the roof that are provided in the box for tile installs?
- A. you caulk them in
 - B. They can't be installed
 - C. Tap them in
92. Which one of the ways is not an acceptable way to route the power cable from the fan to the solar panel?
- A. Route the power cable from the fan unit through the gable vent and along the outside of the house up to the roof
 - B. Cut off the cable from the fan and splice it to the wire that attaches to the solar panel
 - C. Drill a small hole next to the solar panel on the roof. Route the power cable from the fan unit through the attic and up through the hole. Caulk around the hole to prevent leaking
93. In Solar attic fan gable applications, when attaching the cable from the fan to the solar panel there happen to be loose wires, how do you secure the loose wires?
- A. Caulk it
 - B. It is ok for it to hang there
 - C. Use wire staples that are not provided in the box



94. What happens if when you are attaching the solar panel wires to the fan wires in solar gable fan installations if the power cables do not reach?

- A. They will always reach B. use the provided adaptor cable C. N/A

