



**GLENDALE FIREDEPARTMENT**  
*OFFICE OF THE FIRE MARSHAL*  
**Residential Solar PV Guidelines**



**ROOF ACCESS, PATHWAYS AND SMOKE VENTILATION**

Roof access and clearance requirements are required in order to:

- Provide emergency egress from the roof
- Provide areas for smoke ventilation opportunities
- Provide pathways to specific areas of the roof
- Ensure access to the roof

Roof access points should be defined as areas where ladders are not placed over openings (i.e., windows or doors) and are located at strong points of building construction and in locations where they will not conflict with overhead obstructions (i.e., tree limbs, wires, or signs).

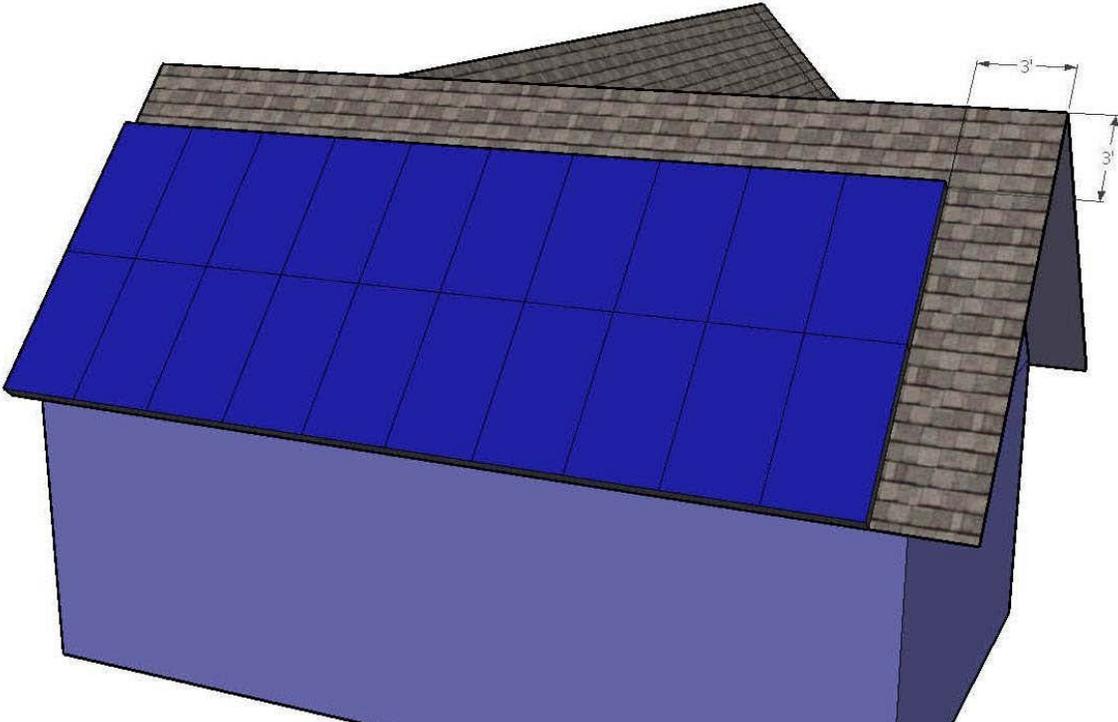
**Roof Access/Pathways**

- a. Residential Buildings with hip roof layouts: Panels should be located in a manner that provides one (1) three-foot (3') wide clear access pathway from the eave to the ridge on each roof slope where panels are located. The access pathway should be located at a structurally strong location on the building (such as a bearing wall).
- b. Residential Buildings with a single ridge: Panels should be located in a method that provides two (2) three-foot (3') wide access pathways from the eave to the ridge on each roof slope where panels are located.
- c. Hips and Valleys: Panels should be located no closer than one and one half (1.5) feet to a hip or a valley if Panels are to be placed on both sides of a hip or valley. If the panels are to be located on only one side of a hip or valley that is of equal length then the panels may be placed directly adjacent to the hip or valley.

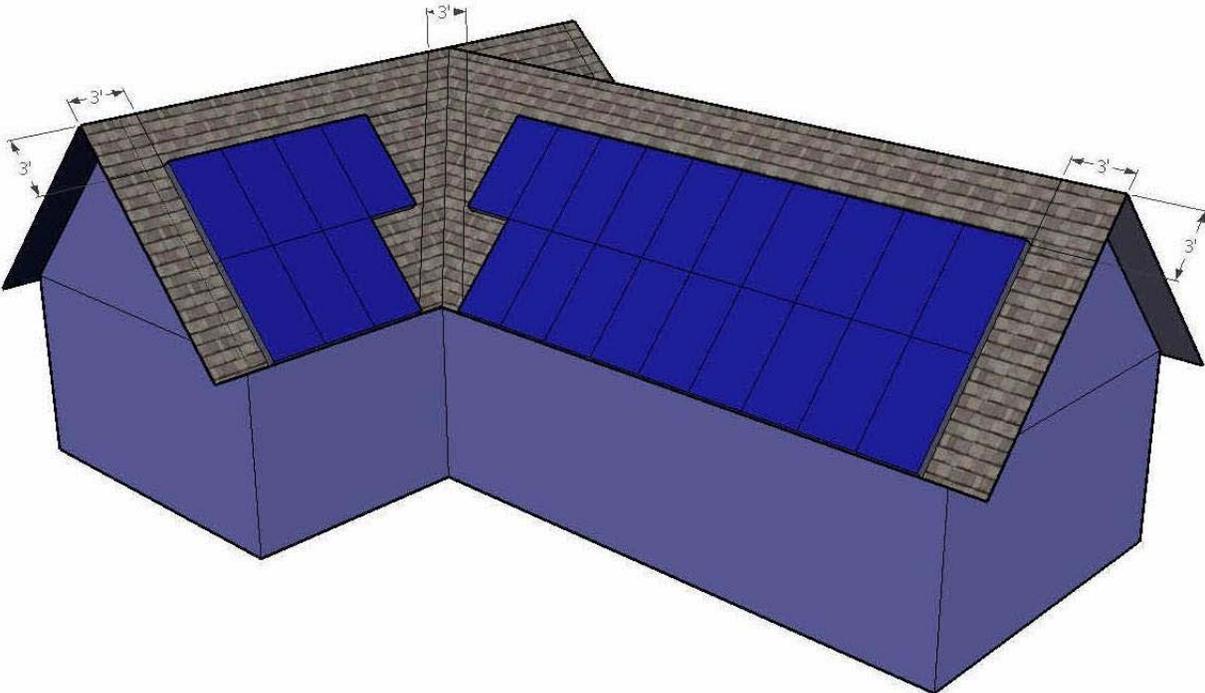
**Smoke Ventilation**

All Solar Panels should be located **no higher than three feet (3') below the ridge**. See following examples as a basic guideline; keep in mind that not all proposed roof layouts will necessarily match the attached scenarios. Contact the Fire Plans Examiner at (623) 930-3127 before submittal and get your questions answered.

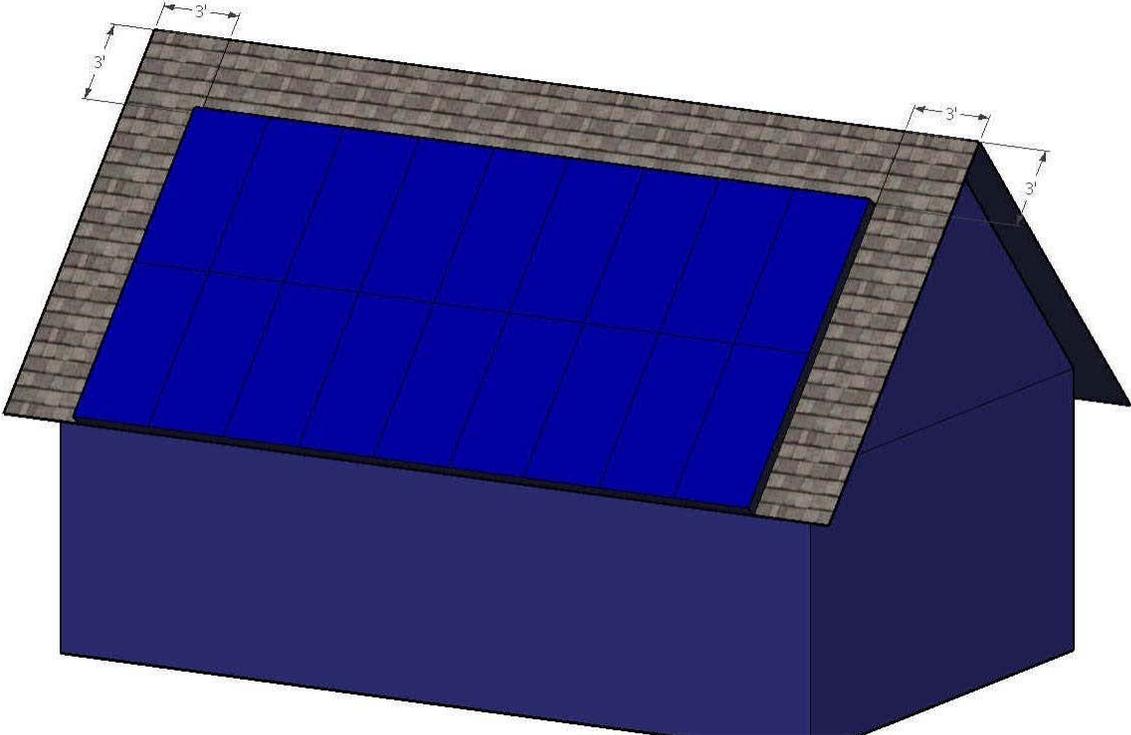
**Cross Gable Roof**



**Cross Gable with Valley**



**Full Gable**



**Full Hip Roof**

