



## **Standard 41 - Solar Panels, 1 Story Buildings**

**ADOPTED JANUARY 2008, RESOLUTION 03-08-09  
GENERAL REQUIREMENTS REVISED APRIL 2011, RESOLUTION 03-11-49  
REVISED OCTOBER 2014, RESOLUTION 03-14-107  
REVISED JANUARY 2016, RESOLUTION 03-16-08  
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### **1.0 GENERAL REQUIREMENTS**

See Standard Section 1: General Requirements

### **2.0 APPLICATIONS**

- 2.1.** In this section, “Solar Panel” refers to roof mounted panels that use solar energy to either heat water directly (Solar Water Heating System), or to generate electricity using photo-voltaic cells (Solar Electric System).
- 2.2.** This section refers only to single story dwellings and the roof section of the building that covers the footprint of the Manor for which the request is being submitted.
- 2.3.** All costs and maintenance of the alteration, present and future, are the responsibility of the Mutual Member.
- 2.4.** All costs associated with roof replacement above and beyond the typical cost for roof replacement that are due to the solar panel installation shall be borne by the Member(s).
- 2.5.** Detailed, site-specific plans for all water and electrical lines for the solar panel installation, including penetrations, shall be submitted to the Manor Alterations Department for approval.
- 2.6.** Should the proposed location of solar panels be in an area that is technically Common Area, e.g., the roof, then the applicant is required to execute and submit to Third Laguna Hills Mutual, prior to installation of a solar panels, the “Agreement Regarding Solar Panel Installation on Common Area Property” or similarly titled document.



- 2.7.** Structural calculations for the existing roof structure, signed and wet-stamped by a California-licensed structural engineer are required to ensure the solar panel system does not compromise the existing roof structure and that the roof is adequate to accept attachments and to support all applied loadings, per the California Building Code and any other applicable laws or ordinances.
- 2.8.** The mounting system must have a current Engineering Certification that certifies the system will be structurally adequate and satisfy building codes when installed per the instructions.
- 2.9.** Flat roof mounting shall be set with the highest point flush with the top of the parapet wall so as to be hidden from the ground or surrounding properties. The lowest point of the solar array equipment shall be a minimum of 10 inches above the flat roof. The stanchions used to connect the array to the roof must be round and have the top of the stanchion able to be water tight.
- 2.10.** Flat roof mounting must leave a minimum of two feet between the panels and the parapet to permit access.
- 2.11.** Sloped roof mounting requires CertainTeed Landmark TL composition shingle roofing on the entire roof area where the array will be located. The array must then be trimmed with light weight tiles (LWT) to match in materials and appearance of the original roof being replaced. The current composition shingle roofing standards for waterproofing the roof at the time of installation must be followed and will include a single layer underlayment, drip edge metal, step flashings at existing skylights and chimneys, penetration flashings for all vents and vent pipes, and valley metal at valley areas.
- 2.12.** Water and electric lines must be set on blocking above the surface to facilitate re-roofing.
- 2.13.** Detailed plans of the installation of roof jacks should be submitted to the Permits and Inspections office for approval.
- 2.14.** Lag screws must have adequate pullout strength and shear capacities.



- 2.15. Flat roofs with PVC roofing shall have all tie-in work completed by the Mutual Roofing Contractor at the Member's expense.
- 2.16. Connections to the manor's electrical system must be coordinated with the local electric utility.
- 2.17. Solar Electric Panels, and their associated electrical components, must be UL approved, or comply with equivalent international standards.
- 2.18. A solar panel system may only serve a single manor.
- 2.19. Leasing of Solar Panels is permitted only under the following conditions:
  - a. Only prepaid leases are permitted, and Member must provide the Mutual a copy of the pre-paid lease contract together with proof of payment before any work on the construction or installation of the solar panel system begins; and
  - b. The pre-paid lease contract must be assigned by the Member.
- 2.20. All solar panel installations located on the roof of a unit must be inspected and approved by a VMS Inc. Roofing Inspector before the solar array is installed and again, after roof replacement is complete, prior to a final inspection of the Mutual Consent.

### **3.0 OBLIGATIONS**

- 3.1 The Mutual Member must sign and submit to Third Laguna Hills Mutual, c/o VMS, Inc, Community Services, the "Recordable Common Area Agreement" for the subject solar panel installation utilizing Common Area.
- 3.2 Member accepts responsibility and agrees to pay for repairs to common areas, including but not limited to roofing, framing, wiring and drywall caused, in whole or in part, by Member's solar panels or their installation, operation, maintenance or removal, and Member accepts all responsibility for damage to Member's Manor or other Manors or to personal property caused or contributed to by



the installation, operation, maintenance or removal of the solar panels.

- 3.3** The Member is responsible for, and will bear all costs associated with removing, altering, covering or reinstalling the alteration as may be necessary or appropriate to allow the Mutual to conduct maintenance or repairs of common area. If the Mutual gives a minimum of thirty (30) days advance written notice of the need to remove, alter, cover or replace the solar panel and the Member does not accomplish this within five calendar days before the removal, alteration, or covering is necessary, then the Mutual will accomplish the removal, alteration or covering at the Member's cost, which will be billed as a Chargeable Service to the Member.
- 3.4** The Member is responsible for, and will bear all costs associated with, clean-up or repair of Mutual owned or controlled property made necessary by or resulting from the alteration.
- 3.5** All costs associated with roof replacement above and beyond the typical cost for roof replacement due to the solar panel installation shall be borne by the Member(s).
- 3.6** The roof area for possible solar panel installation is allocated only to the roof space directly above the subject Manor. It is Member's responsibility to ascertain and adapt to any roof interference by vents or other roof installations already in place.
- 3.7** Upon sale of Member's Manor, all obligations herein shall apply to all subsequent owners of the Manor.
- 3.8** If Member discontinues use of the solar panels, Member will remove the panels, all associated parts, connections and wiring associated with the solar panels after giving notice to the Mutual through the Alterations Division.
- 3.9** The solar installer and his roofer will provide a copy of the composition shingle manufacturer's 40 year warranty and will provide a separate workmanship warranty of 5 years for the composition shingle roof installation. If any leaks occur on a roof so constructed, the solar installer will remove the solar equipment, repair the roof and put back the solar equipment at no cost to the



resident or Mutual. If the solar installer/roofer chooses not to comply with this requirement, then the Mutual Roofing Contractor must be hired to do the roofing work at the member's expense.

- 3.10.** Member must present to the Mutual a vendor/installer agreement that requires vendor to hold harmless and indemnify the Mutual for any and all claims, damages, costs and expenses, including attorney fees related to or arising from the installation, use, maintenance, repair or removal of the solar panel system.