

ROOF MOUNTED PV SYSTEM HANDOUT

A building permit is required for PV system(s). After building permit is issued a separate permit will be required for all electrical work.

Note:

1. A licensed electrician registered with the City of Mansfield must obtain any necessary electrical permits.

FEES:

1. Plan review fee is \$90.00,
2. Permit fee is based on the total value of all construction work for which the permit is issued, and
3. Other fees as applicable based on the City of Mansfield permit fee schedule available on the city web site @ <http://www.mansfield-tx.gov>.

SUBMITTAL REQUIREMENTS: Submit sufficient information to deem compliance with the adopted 2006 International Residential Code and applicable ordinances. Additional information may be requested to determine compliance.

- A completed Residential/Commercial Building permit application. Application is available on our web site at www.mansfield-tx.gov or at the Development Services front counter.
- A letter from a Texas Licensed Professional Engineer will be required stating that roof will support the proposed panels. Also, the letter must include any recommended modification needed to roof structure along panel support and bracing systems.
- Solar Collectors and other system components are required to be listed and labeled by an approved national recognized agency. Provide data specification sheet for PV system and its components.
- SCALED AND DIMENSIONED PLANS WHICH INCLUDES:**
 - A. A site plan to scale showing location of major components on the property.
 - B. Electrical line diagram of the electrical equipment prepared by a Texas Licensed Professional Engineer of the PV array configuration showing, wiring system, overcurrent protection, grounding, inverter, disconnects, required signs, ac connection to building, and size and location of electrical panel. Include PV system equipment make, model and size of units.
 - C. Specification sheets, listings and installation manuals (instructions) for all manufactured components including, but not limited to, PV modules, inverter(s), combiner box, disconnects, and mounting system.
 - D. A roof plan, side elevations of collectors and mounting details. Also, note compliance with local wind loading requirements 90 MPH (3-sec-gust/75 fastest mile).
 - E. Additional information required on plans,
 - a. Weight of the arrays (pounds per square foot- including mounting hardware)
 - b. Describe and show the roof structural elements, including:
 1. Rafter size, span, spacing
 2. Roof sheathing
 3. Provide additional structural calculations and/or engineer's verification of load capacity of the roof structure.
 - c. Identify roofing type (e.g. comp shingle, shake, light weight tile, etc.) and pitch.
 - d. Provide details of PV panel mounting hardware attachment to the roof framing members.

NOTE:

1. Local planning and zoning regulations involving such requirements as setback, height limitations, color, reflectivity or other design considerations, may apply. Contact the Planning Department at 817-276-4229 for further information.