



Village of Bridgeview

7500 SOUTH OKETO AVENUE • BRIDGEVIEW, ILLINOIS 60455 • (708) 594-2525

Solar Permit Application

JOB SITE ADDRESS _____

NAME OF BUILDING OWNER _____

JOB VALUATION _____

Installation Contractor	Name _____
	Address _____
	City _____ State _____ Zip _____
	State License No. _____ Phone _____

Required information for permit:

1. Site plan showing location of major components on the property and a framing cross section that identifies type of support (rafter or truss), spacing, span dimension, and approximate roof slope. The drawings need not be exactly to scale, but it should represent relative location of components. PV arrays on dwellings with a 3' perimeter space at ridge and sides may not need separate fire service review.
2. Specification sheets and installation manuals for all manufactured components including, but not limited to, PV modules, inverter(s), combiner box, disconnects, and mounting system.
3. If city manages electric permit process - Electrical diagram showing PV array configuration, wiring system, overcurrent protection, inverter, disconnects, required signs, and AC connection to building (see accompanying standard electrical diagram).

If location of the solar resource on the roof requires installation within three feet of sides or ridge, check with building official to determine if fire service review is needed.

Step 1: Structural Review of PV Installation Mounting System

1. Is the roof supporting the installation a pitched roof in good condition, without visible sag or deflection, no cracking or splintering of support, or other potential structural defect? Yes No
2. Is the roof a rafter system? Yes No
3. Is the equipment to be flush-mounted to the roof such that the collector surface is parallel to the roof? Yes No
4. Is the roof type lightweight? Yes (composition, lightweight masonry, metal, etc...) No
5. Does the roof have a single layer of roof covering? Yes No

For truss systems, additional information may be needed to ascertain the truss' design loads. The SolarStruc tool (<http://www.growsolar.org/wp-content/uploads/2012/06/Solarstruc-2.2.xls>) allows contractors to calculate truss capacity for solar installations. Please contact the building official for standards on when structural analysis will be needed.



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Solar Permit Application Pg. 2

If “No” to any of questions 1 -4, additional documentation may be required. Documentation may need to demonstrate the structural integrity of the roof and all necessary structural modifications needed to maintain integrity. A statement stamped by a Illinois licensed/certified structural engineer certifying integrity may be needed. Contact the building official to determine submittal requirements.

6. Identify method and types of weatherproofing for roof penetrations (e.g. Flashing, caulk).

Mounting System Information:

7. Is the mounting structure an engineered product designed to mount PV modules with no more than an 18” gap beneath the module frames?

If No, provide details of structural attachment certified by a design professional. Manufacturer’s engineering specifications are sufficient to meet this requirement.

8. For manufactured mounting systems, fill information on the mounting system below:
 - a. Mounting System Manufacturer
 - b. Product Name and Model #
 - c. Total Weight of PV Modules and Rails _____ lbs
 - d. Total Number of Attachment Points _____
 - e. Weight per Attachment Point _____ lbs
 - f. Maximum Spacing between Attachment Points on Rail _____ inches (see manual for maximum spacing allowed based on maximum design wind speed).
 - g. Total Surface Area of PV Modules (Square Feet) _____ ft²
 - h. Distributed Weight of PV Module on Roof (c/f) _____ lbs/ft²

Attaching the rail to each rafter or truss that passes under the array, or to blocking installed between each support, may serve to mitigate for any structural uncertainties on older roofs or wind loading concerns. This approach is used by other Midwestern cities based upon engineering studies conducted with their building stock. Contact the building official to determine requirements.

If distributed weight of the PV system is greater than 5 lbs/ft², a study or statement demonstrating the structural integrity of the installation, or a statement stamped by an Illinois licensed/certified structural engineer, may be required. Contact the building official to determine requirements.



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Solar Permit Application Pg. 3

Step 2: Electrical Review of PV System

Please document the following information to be issued an electric permit. If the installation does not meet the following thresholds, additional information may be needed, as requested by the permit official.

1. PV modules, utility-interactive inverters, and combiner boxes are identified for use in PV systems.
2. The PV array is composed of 4 series strings or less per inverter.
3. The total inverter capacity has a continuous AC power output 13,440 watts or less
4. The AC interconnection point is on the load side of service disconnecting means (NEC 2011 705.12(D), NEC 2008 690.64(B)).
5. A standard electrical diagram should be used to accurately represent the PV system. Acceptable diagrams, in interactive PDF format, are available at www.solarabcs.org/permitting.

Fill out the standard electrical diagram completely. A guide to the electrical diagram is provided at www.solarabcs.org/permitting to help the applicant understand each blank to fill in. If the electrical system is more complex than the standard electrical diagram can effectively communicate, provide an alternative diagram with appropriate detail.

Step 3: Permit fee for residential installations

_____ Fees \$150.00
 _____ Additional Inspection \$50.00
 (Per inspection, when needed)

TOTAL FEE = \$ _____

RECEIPT NO. _____

DATE _____

I HEREBY CERTIFY that I have completed and examined this application and certify that the information contained therein is correct. If a permit is issued, I agree all work will be done in conformance with all applicable ordinances and codes of the Village of Bridgeview and laws of the State of Illinois.

CONTRACTOR OR AUTHORIZED/HOMEOWNER



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Solar Permit Application - Sample Placements of Solar Panels

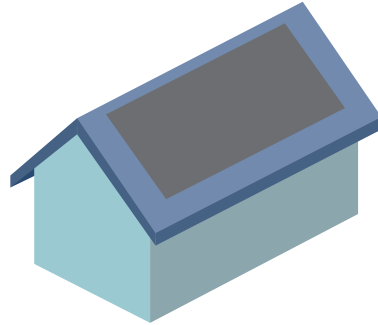
Front View



Side View



3/4 View



Top View

