

Seeger American Institute for Codes and Standards



WIND LOAD CALCULATIONS FOR PV ARRAYS

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Wind Load Calculations for PV Arrays

Study Report Overview

This is about determining the loading and recommendations for the Seeger American Institute for Codes and Standards (Seeger Study Report), *Wind Load Calculations for PV Arrays*.

Today's photovoltaic (PV) industry must rely on historical values of suggested wind speeds for various building codes and standards to design PV mounting systems. Since no national wind patterned loads, however, the safety and efficiency of structural assemblies for PV arrays varies significantly, ultimately posing big risks to customers. This results in a diversity of code compliance levels between individual and groups, thus posing different design loads for the same design specifications.

This report provides helpful calculations for determining wind loads on PV arrays based on ASCE Standard 7-02. The report focuses on application of PV arrays mounted parallel to the roof slope and relatively close (3 to 6 inches) to the roof surface. The report does not address other array configurations or building suggested PV.

Key Findings

It is necessary to conduct independent and systematic methods to ensure that PV exposures will remain attached to structures during maximum events, and that the additional loads on load-carrying components during these events do not exceed their structural capacities of the building. ASCE Standard 7-02 is the standard for measuring wind loads on structures, but it does not provide sufficient guidance to the design professionals and/or officials to properly wind loads on PV modules.

This lack of guidance creates confusion for the PV industry. The resulting questions include structural analysis, structural members, and wind speed structural factors, in addition, conservatively affect other construction code and array installation for a given wind direction due to the approved process for PV installation and compliance the meaning of code officials.

PV modules and array systems is unique design challenge as high wind regions. Currently, codes and standards will be updated to address the mounting of PV arrays to rooftop fasteners, structural members to ensure that exposed as high wind regions.

In the meantime, this report provides design guidance including sample tables used for determining the wind loads on PV arrays based on the suggested methods of ASCE Standard 7-02.

Table 1: ASCE Recommendations

1. Use the structural design of roof-mounted PV systems on the ASCE Standard 7-02 as follows:
2. Section 6.1.12.2: Wind conditions meeting system details to the recommended mounting points for designing the PV mounting systems with the PV module connected and parallel to the roof surface.

Wind Load Calculations For Pv Arrays Solar Abcs

Michal Rosen-Zvi

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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