

# FP2S PV-Shelter Prescription of placement



 **Atkore™**



# FP2S PV-Shelter

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These installation instructions are intended for the correct installation of Atkore Vergokan's FP2S Solar Shelters. It is vital to follow these instructions carefully to ensure safe and efficient operation. Be sure to take the required safety precautions during installation.

### 1. Determination of required ballast:

Before starting the installation, it is crucial to determine the ballast required for the Solar Shelter. To do this, you should use the wind tables for the specific model FP2S. To calculate the correct ballast, the following data are required:

- Base wind speed ( $v_{b,0}$ ): Consult local weather information or meteorological data to determine the base wind speed at the installation location.
- Installation height: Measure the height at which the Solar Shelter will be installed from ground level.
- Wind zone (0, I, II, III, IV): Determine the wind zone based on location. This is usually coded in national or regional building codes.

Once you have this data, you can calculate the wind load on the Solar Shelter according to the instructions in the wind tables for FP2S. The ballast required to ensure the stability of the structure follows from this.

### 2. Check roof and wall load-bearing capacity:

Before installing a single and double Vergokan FP2S shelter on a roof surface, it is necessary to carry out a thorough inspection to verify that the roof structure is capable of supporting the required load. It is essential that the roof structure provides sufficient strength to safely support the Solar Shelter.

When installing a single and wall Vergokan FP2S shelter against a wall or wall, it should also be verified that these are capable of supporting the required load so that they can safely support the solar shelter.

If the inspection shows that the roof structure or wall cannot support the required load, we recommend contacting Atkore Vergokan immediately. Together with our expert team of engineers, a suitable solution can be sought to carry out the installation in a safe and effective manner. Indeed, ensuring the structural integrity of the roof and walls is very important to minimise any risks and ensure the durability of the system.

### 3. Mounting the Solar Shelter:

Place the Solar Shelter in the desired location before starting the actual assembly. You can find detailed assembly instructions on Atkore Vergokan's official website. Follow the steps and instructions carefully to ensure that the Solar Shelter is assembled correctly.

If you plan to use large converters, it is recommended to install the roof of the FP2S only after the converter is mounted. This can ease the process and ensure a smooth installation.

### 4. Shelter placement:

The placement requirements for placing the PF2S shelter depend on the model. Below is a specific description of all the elements to be taken into account.

# FP2S PV-Shelter

## Prescription of placement

### Installation instructions FP2S.2.1500:

The dual FP2S solar shelter can be installed in almost any rooftop location, provided the installation is done according to Atkore Vergokan's load recommendations. The wind tables provide the required load calculations for the most critical scenario, where the wind acts frontally on the shelter. This has the advantage that the orientation of the shelter relative to the main wind direction is less critical, as long as it is loaded correctly.

"Correctly loaded" means that the load is balanced on both sides of the shelter. For example, if 10 ballast stones are used, five should be placed at the front and five at the rear of the shelter. In addition, it is important that these ballast stones are distributed evenly across the width of the shelter. This ensures the stability of the Solar Shelter, regardless of the angle at which it is placed in relation to the prevailing wind direction.

In addition, potential equalisation should also be provided so that all voltage differences are neutralised to avoid dangerous situations.

Following these guidelines is crucial to ensure that the shelter functions safely and effectively. For further questions or technical support, contact Atkore Vergokan or an approved installer. The Atkore Vergokan team is ready to help optimise the installation and ensure the stability of the Solar Shelter on your roof.

### Installation instructions FP2S.1.1500:

The single FP2S solar shelter should be installed against a wall or wall at all times. In this installation procedure, it is very important to carefully follow Atkore Vergokan's recommendations regarding the load.

The wind tables provide the required load calculations for the most critical scenario, where the wind acts straight on the shelter. This design ensures that the orientation of the shelter relative to the prevailing wind direction is not critical, as long as the load is applied correctly.

Correct loading means that the load is distributed evenly across the width of the shelter. For example, when using ballast weights, they should be placed in a way that maintains an equal distribution across the entire width of the shelter. This ensures the stability and structural integrity of the Solar Shelter, regardless of the exact placement relative to the main wind direction.

In addition, potential equalisation should also be provided so that all voltage differences are neutralised to avoid dangerous situations.

Strict adherence to these instructions is essential to ensure that the shelter functions safely and effectively. For further questions or technical support, please consult Atkore Vergokan or an authorised installer. The Atkore Vergokan team is available to assist you with the installation and guarantee of stability of the Solar Shelter when wall- or wall-mounted.

### Installation instructions FP2S.W.1500:

The FP2S wall solar shelter should be fixed strictly and exclusively to a wall or wall. For the correct fixing method with the wall or wall, we recommend contacting your fixing materials supplier. They can provide you with professional advice and help determine the most appropriate and secure way to attach the shelter to your specific wall or wall structure.

This step is crucial to ensure the stability and safety of the FP2S wall solar shelter. Ensure that the chosen fixing method complies with all relevant standards and regulations, and that the installation is safe and durable. In addition, potential equalisation should also be provided so that all voltage differences are neutralised to avoid dangerous situations.

If you have further questions or need technical support, please contact your supplier or Atkore Vergokan at any time for additional advice and guidelines regarding installation. Careful adherence to these instructions will ensure a successful and safe fixing of the FP2S wall solar shelter.

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### Prescription of placement

#### 5. Security:

Safety is paramount when installing systems on roofs and at height. Ensure strict compliance with all safety rules and regulations applicable to your area. Adhere to all aspects of the installation manual, including safety guidelines, to minimise the risk of accidents. This includes using safety equipment and preventing fall hazards.

#### 6. Inspection:

After completing the installation, carry out a thorough inspection to ensure that all components are correctly installed and that there is no damage to the Solar Shelter. This is an essential step to ensure that the system operates safely and efficiently. If you notice any defects or irregularities during the inspection, correct them before considering the installation complete.

Always refer to Atkore Vergokan's detailed installation manual and documentation specific to the Solar Shelter model you are using. Make sure you are aware of any local regulations and building codes that may apply to your installation location.

If you have further questions or need technical support, please do not hesitate to contact Atkore Vergokan or an authorised installer. They can help you with specific questions and any challenges that may arise during the installation process. Safety and accuracy are of utmost importance when installing Solar Shelters.

