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Cleaning Guidelines: Mitrex Solar Facade

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Cleaning Guidelines

Mitrex Solar Facade

1. Introduction

Welcome to the comprehensive guide on cleaning Building-Integrated Photovoltaic (BIPV) facades. In this document, we will provide you with valuable insights and step-by-step instructions to ensure the optimal performance and longevity of your BIPV modules.

2. Why Clean BIPV Facades

Although you do not need to clean Mitrex Solar Facade modules, regular cleaning helps to maintain and maximize the energy output of the solar facade.

Over time, dust, dirt, and debris can accumulate on the surface of the modules, reducing their efficiency by blocking sunlight and hindering the conversion of solar energy into electricity.

By keeping the solar facade clean, it ensures that the modules operate at their full potential, generating the maximum amount of renewable energy possible and for preserving their longevity. Accumulated dirt and grime can lead to corrosion or degradation of the panel's protective layers, potentially shortening their lifespan.

NOTE: In most cases, rain will sufficiently clean the modules. If there is a dramatic reduction in performance, consider cleaning the panels.

3. Cleaning BIPV Modules

Due to the potential impact on the facing of the Solar Facade, please follow the specific guidance below for general cleaning:

- Mitrex Solar Facade can be cleaned manually once per year, or whenever the glass windows on a building are cleaned.
- In most cases, a similar cleaning method of water and a rubber squeegee can be used.
- In dusty areas such as farmland, the solar facade may need to be cleaned more often if rain is not sufficient.
- In very dusty areas such as the Middle-East, automatic washing systems can be installed. Mitrex Solar Facade can also be cleaned by hand monthly or weekly.

4. Cleaning BIPV Modules Step-By-Step

- Rinse the Solar Facade to remove any debris.
- If some debris remains, gently scrub the Solar Facade using a mild soap.
- Afterwards, rinse the the Solar Facade to remove any residue.

WARNING:

- Clean in the morning or evening when the area temperature is cooler, and the Solar Facade is not directly exposed to sunlight. High temperatures will result in quick evaporation and streaks.
- Before cleaning the Solar Facade, shut off the system to avoid electric shock.
- Before cleaning the modules, always try the cleaning supplies on a small area to ensure it does not damage the glass.
- Avoid strong cleaners. Strong organic solvents should be avoided as they will damage the AR coating.
- Avoid high water pressure (pressure washers) as this may damage the glass.
- When manually scrubbing, use a sponge or soft-bristled brush which will not scratch the glass or remove the coatings.
- A mild detergent can be added to the water in low concentration if needed, but keep in mind that this may leave a residue which could affect the final look of the Solar Facade.

Note: 2-3% Reduction is already considered in calculations for normal dust and debris.

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