



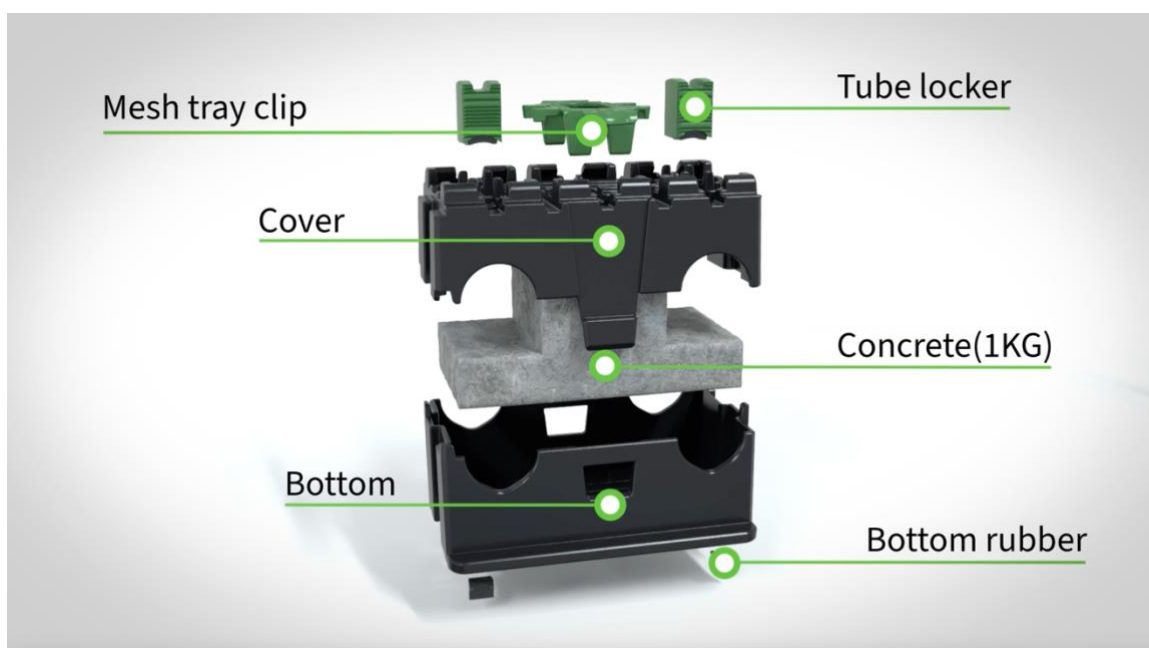
Installation Manual Mesh tray

PVX Multimount®

1. Introduction

The PVX Multimount is a wind-certified and FEM-analyzed mounting system developed by PVX Mounting Systems. It is designed for the installation of mesh trays and tubes on flat roofs with a slope of up to 5°. The system combines easy installation with maximum stability and is compatible with all brands of tubes and mesh trays.

This manual describes the correct mesh tray installation procedure for a safe and durable PVX Multimount installation. For the tube installation procedure, a separate installation manual is available.



 Visual 1.1 – PVX Multimount exploded view



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2. Safety & Preparation

Read this manual carefully before beginning the installation. The installer is responsible for complying with all applicable safety and building standards, including:

- **NEN-EN 1991-1-4:2011** - Wind loads
- **NEN 7250:2014** - Integration of photovoltaic systems in and on buildings

Before installation, make sure that:

- the roof surface is clean, level, and stable;
- there are no obstacles along the cable route;
- the correct support spacing has been calculated using the **PVX Calculator**.

⚠ Note:

According to **NEN 1010 clause 134.1.1** an installation must be carried out in accordance with the manufacturer's instructions. Therefore, the use of the **PVX Calculator** is mandatory to meet the conditions of the application warranty. The product warranty remains valid at all times.



**PVX
CALCULATOR**

 Visual 2.1 - Logo PVX Calculator



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3. Step-by-step Installation

Step 1 - Preparation

Mark the positions of the first and last PVX Multimount according to the calculated support spacing. Check that all required components are present.

Step 2 - Placement of the Supports

Position the PVX Multimounts aligned along the cable route. Ensure that the base is stable on the roof surface.

Step 3 - Alignment Check

Use a straight edge to verify the alignment of the supports. If necessary, adjust the positions slightly.

Step 4 - Mesh Tray Installation Preparation

Squeeze the mesh tray clip of the PVX Multimount from the sides and remove it.



 Visual 3.1 - Mesh Tray Clip Removal



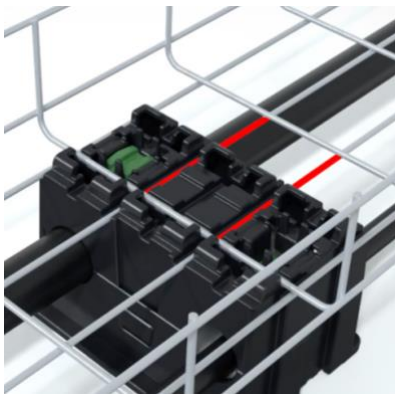
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Step 5 - Mesh Tray Grid (Longitudinal Wires)

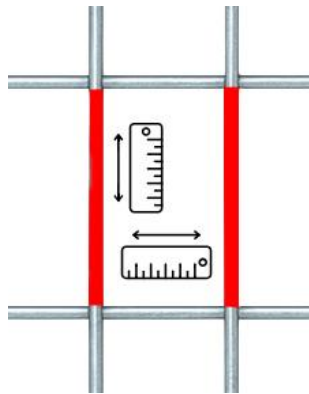
⚠ Installation in this manner always requires two longitudinal wires.

For installation on the **longitudinal wires (max Ø6.2 mm)**, the following is required:

- a **minimum available grid length of 85 mm**, and
- a **spacing of 45-50 mm**, measured from the **inside**.



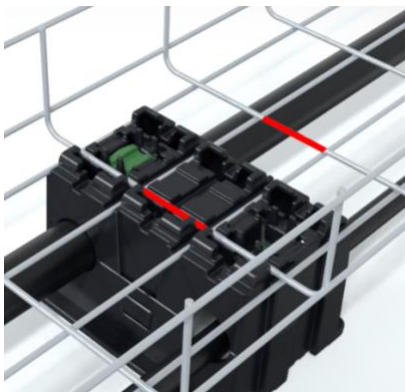
📷 Visual 3.2 - Red: longitudinal wires



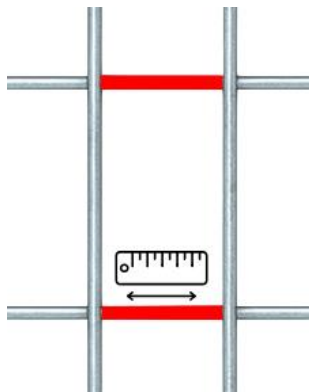
📷 Visual 3.3 - Close-up mesh tray grid

Step 6 - Mesh tray (cross wire)

For installation on the **cross wire (max Ø6.2 mm)**, an available mesh width of **45-50 mm** is required, measured from the **inside of the cross wire (!)**.



📷 Visual 3.4 - Red: Cross wire



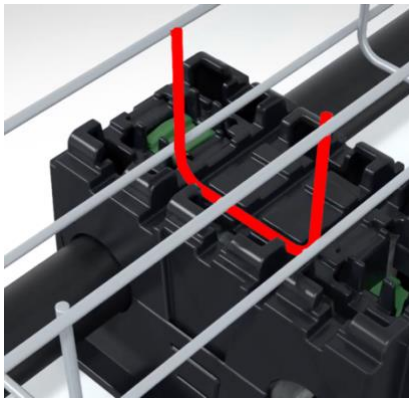
📷 Visual 3.5 - Close-up mesh tray grid



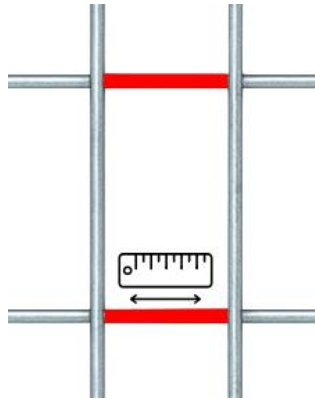
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Step 7 - Mesh tray (single cross wire)

For installation **solely** on the **cross wire (max Ø6.2 mm)**, an available mesh width of **45-50 mm** is required, measured from the **inside of the cross wire (!)**.



📷 Visual 3.6 - Red: Cross wire



📷 Visual 3.7 - Close-up mesh tray grid

Step 8 - Placement of mesh tray (60 mm-300 mm wide)

Place the mesh tray (**60-300 mm wide**) into the PVX Multimount and check that it is positioned correctly and securely within the carrier's slots.



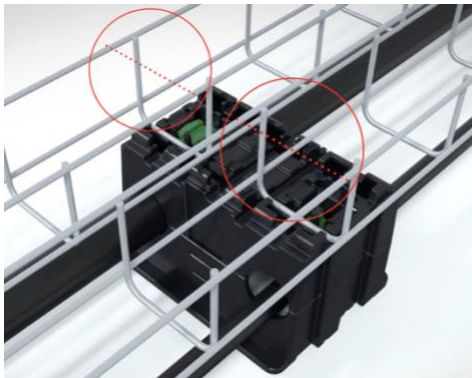
📷 Visual 3.8 - Mesh tray placement



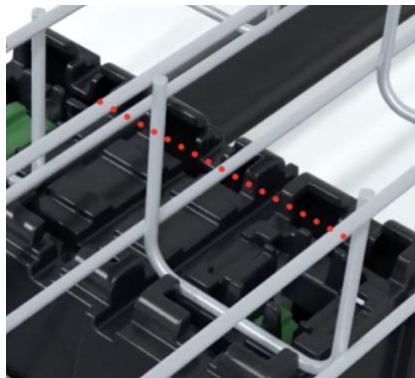
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Step 9 - Placement of 2 mesh trays

Place two mesh trays (**each 60-100 mm wide, measured from the outermost edges**) into the PVX Multimount and check that both are positioned correctly and securely within the carrier's slots.



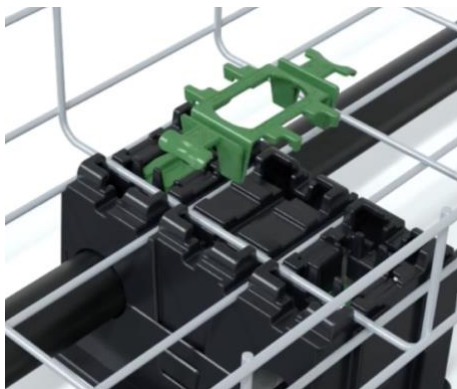
 Visual 3.9 - Outer side of mesh trays



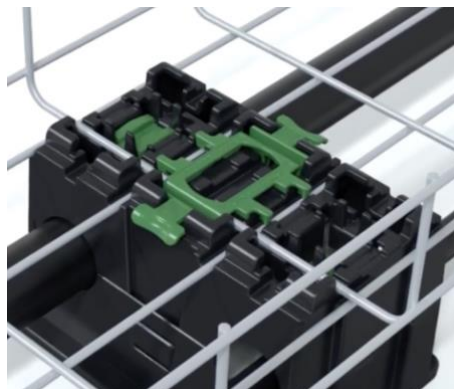
 Visual 3.10 - Zoom-in on outer side of mesh tray

Step 10 - Installing the mesh tray clip

Place the mesh tray clip into the mounting support and press it down firmly until a **distinct click** is heard. This click confirms that the mesh tray is properly locked in place.



 Visual 3.11 - Placement of mesh tray clip



 Visual 3.12 - Mesh tray clip installed




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Step 11 - Check fastening

Check that the mesh tray is securely fixed everywhere and that all mesh tray clips are locked.



 Visual 3.13 - Route inspection

Step 12 - Final inspection

Walk along the entire route to check that all PVX Multimounts are correctly installed, the alignment is maintained, and the mesh tray is properly supported everywhere.



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4. Warranty and Compliance

The **product warranty** from **PVX Mounting Systems** is automatically valid for all delivered products, regardless of the application. This warranty exclusively covers product quality, material properties, and workmanship under normal use.

The **application warranty** is only valid when:

1. An **approved calculation** has been performed for the project using the **PVX Calculator**, and
2. The installation has been carried out according to the calculated support distance and applicable installation instructions.

The use of the **PVX Calculator** is therefore mandatory to be eligible for the application warranty.

Product warranty: 15 years

Application warranty: 15 years with PVX Calculator (with approved calculation)

Standards:

- NEN-EN 1991-1-4:2011
- NEN 7250:2014
- CUR Recommendation 103:2005



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5. Product links

PVX Multimount Installation Video:

<https://youtu.be/xSI01EM0SIY?si=JOalsG9ObFPXf1kl>

PVX Calculator:

<https://pvxmountingsystems.com/pvx-calculator/>

3D - Augmented reality PVX Multimount:

<https://vulp.studio/pvxmultimount/pvxmultimount/nl-NL/?hotspots=1&hotspot-button=1&color=default&cg-clip=none&cg-pipe-left=none&cg-pipe-right=none>

Website PVX Mounting Systems - PVX Multimount:

<https://pvxmountingsystems.com/plat-dak/>

Website PVX Mounting Systems:

<https://pvxmountingsystems.com>

QR-code PVX Mounting Systems website:

