PVX Mounting Systems®
THE STANDARD IN CABLE MANAGEMENT

INSTALLATION MANUAL

PVX CABLE MANAGEMENT · FLAT ROOF

PVX MULTIMOUNT®

Mounting mesh tray and tube on the flat roof, step by step.



A PART A · PAGE 4
MESH TRAY
1 mesh tray 60–300 mm or 2 mesh trays 60–100 mm

B PART B · PAGE 7
TUBE
Tube Ø 16–32 mm

1 · INTRODUCTION

ABOUT THIS MANUAL.

The PVX Multimount® is a wind certified and FEM-analysed mounting system from PVX Mounting Systems for mounting mesh tray and tube on flat roofs with a pitch of up to and including 5°. The system combines simple installation with maximum stability and is suitable for all brands of mesh tray and tube.

This manual describes the installation of **mesh tray (part A)** and **tube (part B)**. Steps 1 to 3 apply to both.

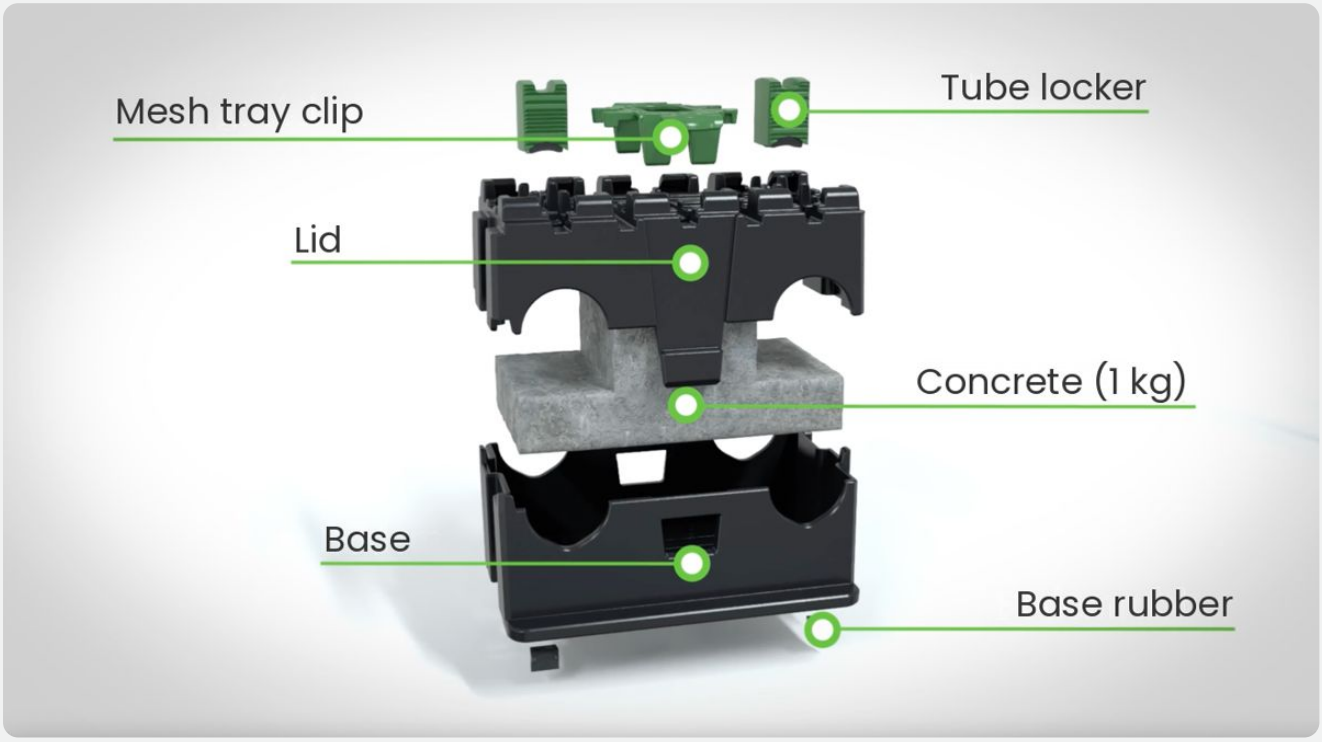


Figure 1.1 – PVX Multimount, exploded view

2 · SAFETY AND PREPARATION

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

- **NEN-EN 1991-1-4:2011** – Wind load
- **NEN 7250:2014** – Integration of solar power systems in and on buildings

Before installation, check that:

- the roof surface is clean, flat and stable;
- there are no obstacles in the cable route;
- the roof pitch is no more than 5°;
- the correct support spacing has been calculated with the PVX Calculator.

PVX CALCULATOR

Note: according to NEN 1010, clause 134.1.1, an installation must be carried out in accordance with the manufacturer's instructions. Using the PVX Calculator is therefore mandatory to meet the conditions of the application warranty. The product warranty remains in force at all times.

PLACING THE MULTIMOUNTS.

Steps 1 to 3 apply to both mesh tray and tube.

1 Preparation

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

2 Placement

Place the PVX Multimounts aligned in the cable route, with the base rubber fully on the roof surface.

3 Alignment

Check the alignment with a straightedge or mesh tray. Adjust the positions slightly if necessary.

THE MANUAL AT A GLANCE

FROM ROOF TO DONE.

1 2 3

Prepare

mark · place · align

›

A Mesh tray

page 3–6

or

B Tube

page 7

›

✓

Done

save the project PDF from the PVX Calculator

A PART A · MESH TRAY

A1 Remove the mesh tray clip

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

You will find an overview of all steps of part A on page 6.



A PART A · MESH TRAY

A2 Choose the position in the grid

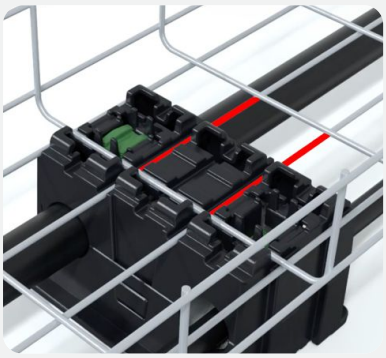
The PVX Multimount clamps the mesh tray onto the wires of the grid. First check which type of mesh tray you have, then choose one of the three options. Red always marks the section of wire that goes into the PVX Multimount.

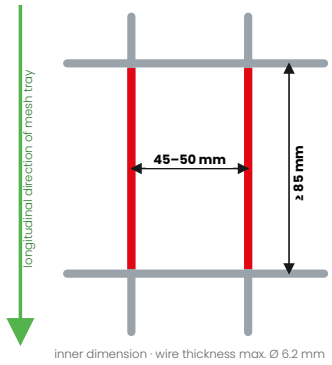
Does your mesh tray have longitudinal wires in the base? Choose option 1 or 2. · **Cross wires only?** Choose option 3.

1 On the longitudinal wires

Mesh tray with longitudinal wires

Mounting on two longitudinal wires. Free length between two cross wires at least 85 mm, spacing 45–50 mm (inner dimension).

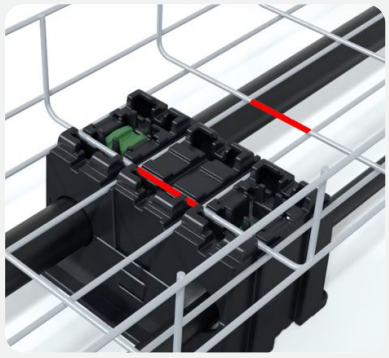


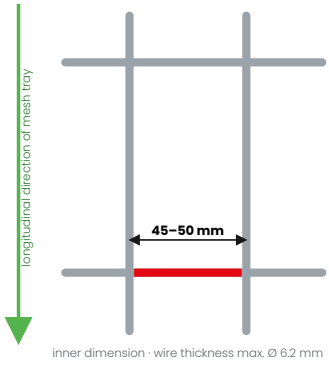


2 On the cross wire

Mesh tray with longitudinal wires

You can also mount on the cross wire. The section of cross wire between two longitudinal wires must be 45–50 mm (inner dimension).

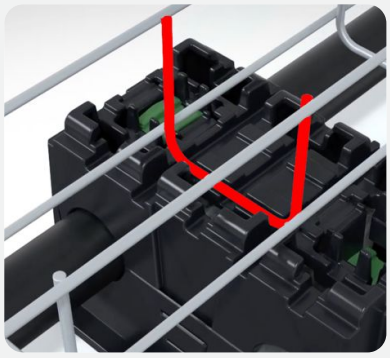


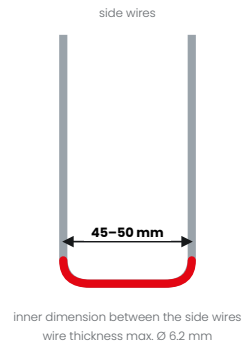


3 Cross wire only

Mesh tray without longitudinal wires

Mounting on the cross wire. The inner dimension between the side wires must be 45–50 mm.





Note: the wire thickness is max. Ø 6.2 mm. Always measure the inner dimension, from the inside of one wire to the inside of the other.

A PART A · MESH TRAY

A3 Place one or two mesh trays

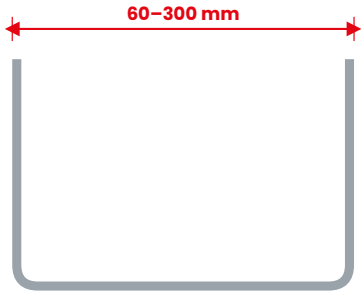
On one PVX Multimount you can place one wide mesh tray, or two narrow ones side by side. Then check that the mesh tray sits correctly and stably in the slots.

1 One mesh tray

Width 60–300 mm

Place the mesh tray in the PVX Multimount and check that it sits correctly and stably in the slots.





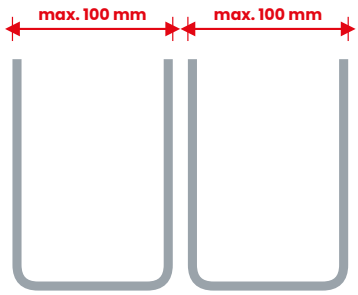
mesh tray width

2 Two mesh trays side by side

Outer dimension per mesh tray max. 100 mm

Place both mesh trays in the PVX Multimount. Measure the outer dimension, from the outside of one wire to the outside of the other: max. 100 mm per mesh tray.





outer dimension per mesh tray

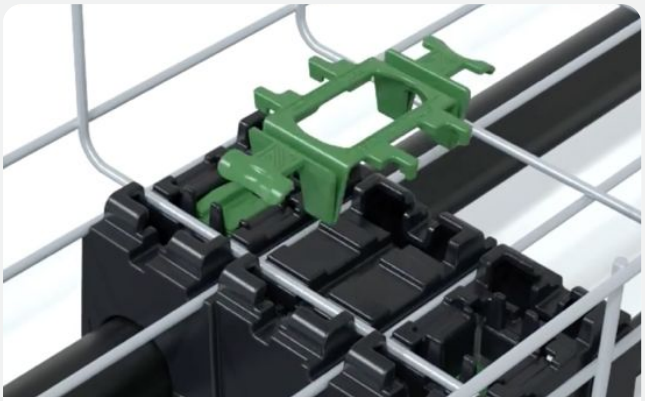
Note: with two mesh trays too, each mesh tray must match the position in the grid from step A2 (45–50 mm inner dimension).

Mesh tray and tube? The order is up to you. It is most logical to install the tube first (part B), then the mesh tray.

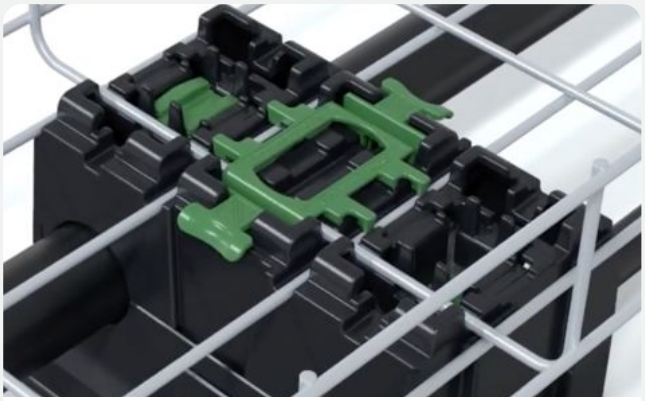
A PART A · MESH TRAY

A4 Install the mesh tray clip

Place the mesh tray clip on the PVX Multimount and press it down firmly until you hear a clear click. The click confirms that the mesh tray is correctly locked.



Placing the mesh tray clip



Mesh tray clip installed

A5 Check and final inspection

Check that the mesh tray is evenly secured everywhere and that all mesh tray clips are locked. Then walk the entire cable route: are all PVX Multimounts positioned correctly, is the alignment maintained and is the mesh tray properly supported everywhere?

Done. Save the project PDF from the PVX Calculator. You need it as proof for the application warranty.
Removing a mesh tray clip? Do this the same way as in step A1.

PART A AT A GLANCE

MESH TRAY IN 5 STEPS.



A1 Mesh tray clip off

A2 Choose grid

A3 Place mesh tray

A4 Mesh tray clip on

A5 Check

Always start with steps 1–3 (page 3): mark positions, place and align the PVX Multimounts. Combining mesh tray and tube? Then preferably place the tube first (part B, page 7).

B PART B · TUBE

1 or 2 tubes, Ø 16–32 mm. First carry out steps 1 to 3 (page 3).

Green circle = squeeze here **Green arrows** = press in the direction of the arrows

B1 Remove the lid

With one hand, squeeze both sides at the same time at the green circle (on both sides; the back is not visible) and lift the lid off. Alternative: push the tube (Ø 16–32 mm) straight through the tube entries.



B1 – Removing the lid

B2 Place the tube

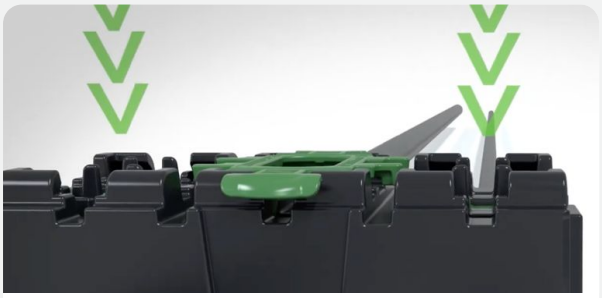
Place the tube in the PVX Multimount and check that it sits correctly and stably in the tube entry. Put the lid back: squeeze both sides at the green circle and press it down until it clicks into place.



B2 – Placing tube Ø 16–32 mm

B3 Lock the tube

Press the tube locker down firmly, in the direction of the green arrows, until it clicks fully into place and the tube is correctly locked.



B3 – Pressing down the tube locker

B4 Final inspection

Walk the entire cable route: are all PVX Multimounts positioned correctly, is the alignment maintained and is the tube properly supported everywhere?



B4 – Checking the cable route

i For information: unlocking the tube

Squeeze the two tabs together, as shown by the green arrows, and lift the tube out.



Unlocking the tube

4 · WARRANTY AND CONFORMITY

15-YEAR WARRANTY.

15 years
Product warranty

Applies as standard to all supplied products, regardless of the application. Covers product quality, material properties and workmanship under normal use.

15 years
Application warranty

Only applies when an approved calculation has been made for the project with the PVX Calculator, and the installation has been carried out according to the calculated support spacing and the applicable installation instructions.

Using the PVX Calculator is therefore mandatory to be able to claim the application warranty.

Standards: NEN-EN 1991-1-4:2011 · NEN 7250:2014 · CUR Aanbeveling 103:2005

5 · LINKS

Installation video PVX Multimount
https://youtu.be/xSl01EM0SlY

PVX Calculator
https://pvxmountingsystems.com/en/pvx-calculator/

3D / augmented reality PVX Multimount
https://vulp.studio/pvxmultimount/pvxmultimount/nl-N...

PVX Multimount on the website
https://pvxmountingsystems.com/en/pvx-cable-management...

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