PVX Mounting Systems®
THE STANDARD IN CABLE MANAGEMENT

INSTALLATION MANUAL

PVX CABLE MANAGEMENT · FLAT ROOF

PVX SINGLEMOUNT®

Mounting one mesh tray on the flat roof, step by step.



MESH TRAY

60–300 MM

One mesh tray per PVX Singlemount, with mesh tray clip

WARRANTY

15 YEARS

Product and application warranty, see page 6

1 · INTRODUCTION

ABOUT THIS MANUAL.

The PVX Singlemount® is a wind certified and FEM-analysed mounting system from PVX Mounting Systems for mounting mesh tray 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.

This manual describes the correct installation for a safe and durable installation of the PVX Singlemount.

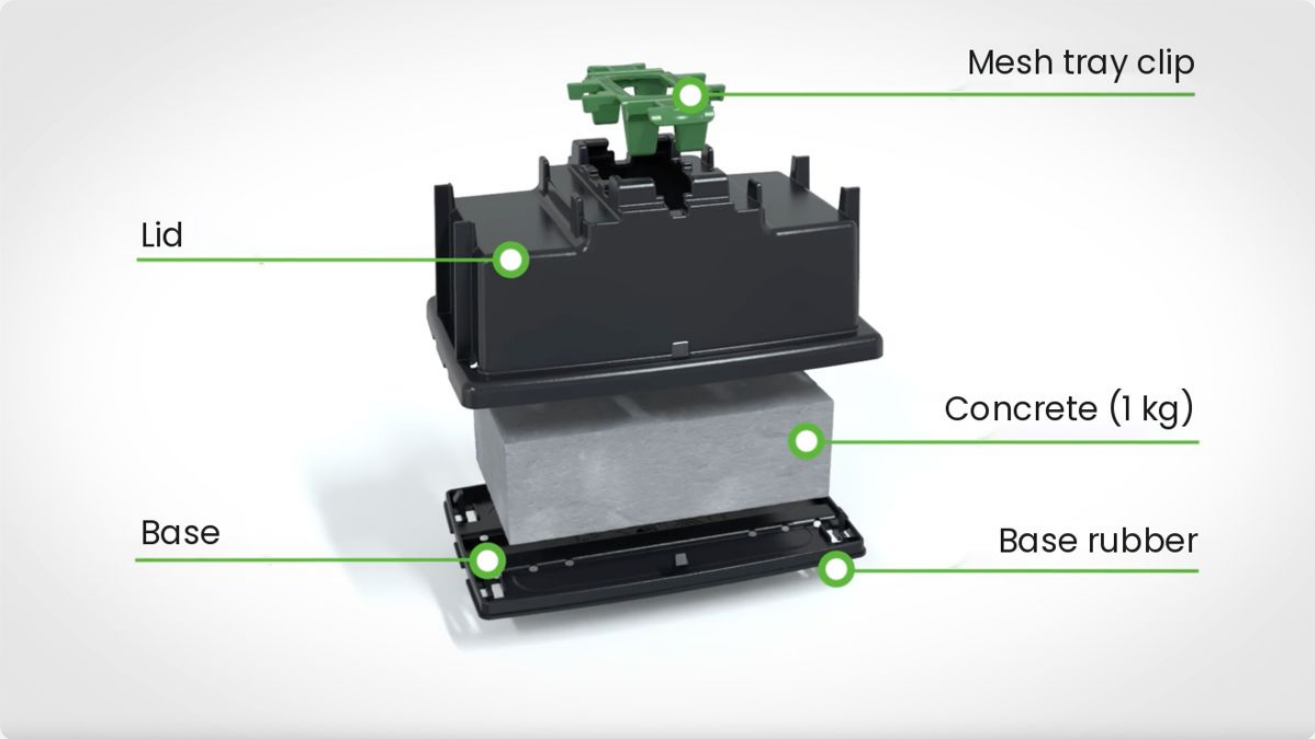


Figure 1.1 – PVX Singlemount, exploded view

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 SINGLEMOUNTS.

Always start with steps 1 to 3.

1 Preparation

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

2 Placement

Place the PVX Singlemounts 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

›

4 5 6 7 8 **Mount mesh tray**
page 3–5

›

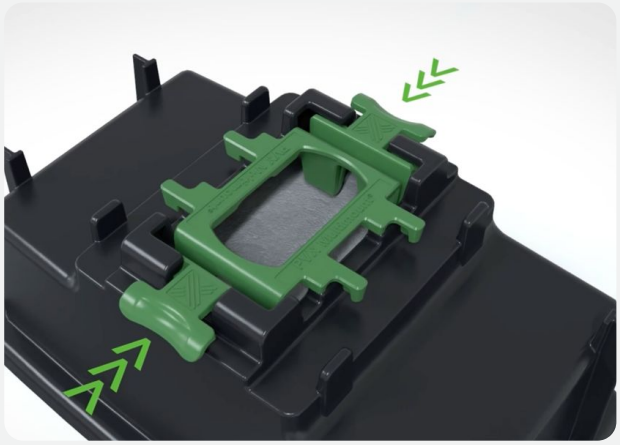
✓ **Done**
save the project PDF from the PVX Calculator

PVX SINGLEMOUNT · MESH TRAY

4 Remove the mesh tray clip

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

You will find an overview of all steps on page 5.



PVX SINGLEMOUNT · MESH TRAY

5 Choose the position in the grid

The PVX Singlemount clamps the mesh tray onto the wires of the grid. Choose one of the two options. Red always marks the section of wire that goes into the PVX Singlemount.

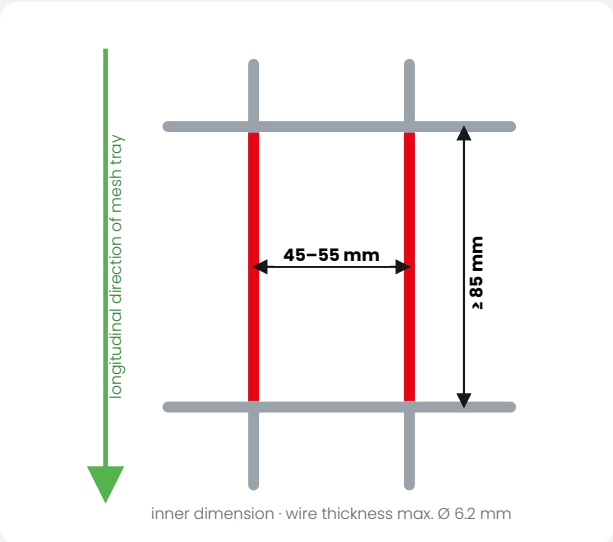
Option 1 always requires two longitudinal wires. · **Option 2** works with and without longitudinal wires.

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 45–55 mm (inner dimension).



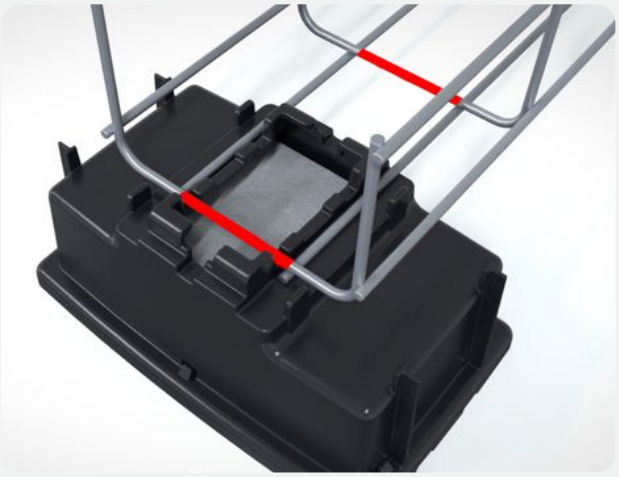


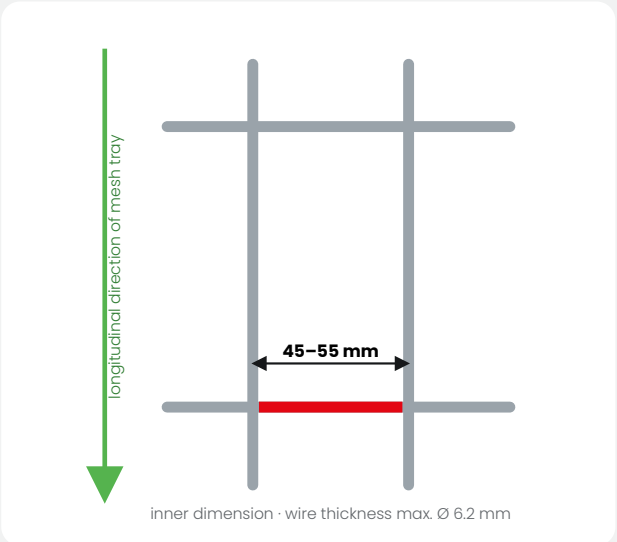
inner dimension · wire thickness max. Ø 6.2 mm

2 On the cross wire

Mesh tray with or without longitudinal wires

Mounting on the cross wire. The section of cross wire that goes into the PVX Singlemount must be 45–55 mm (inner dimension).





inner dimension · wire thickness max. Ø 6.2 mm

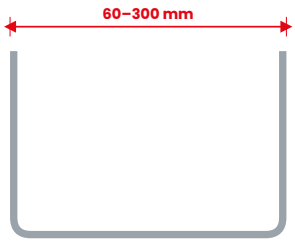
Note: the wire thickness is max. Ø 6.2 mm. Always measure the inner dimension, from the inside of one wire to the inside of the other.

PVX SINGLEMOUNT · MESH TRAY

6 Place the mesh tray

Place the mesh tray (60–300 mm wide) in the PVX Singlemount, in the position you chose in step 5. Check that it sits correctly and stably in the slots.

Place one mesh tray per PVX Singlemount.



mesh tray width

7 Install the mesh tray clip

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



Mesh tray clip installed

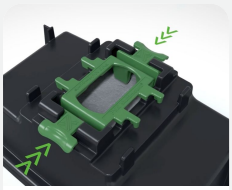
8 Check and final inspection

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 Singlemounts 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 4.

INSTALLATION AT A GLANCE

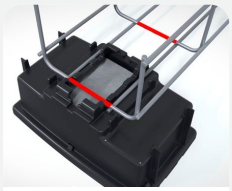
MESH TRAY IN 5 STEPS.



4 Mesh tray clip off



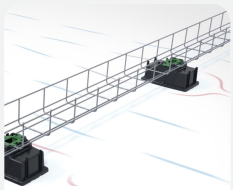
5 Choose grid



6 Place mesh tray



7 Mesh tray clip on



8 Check

Always start with steps 1–3 (page 3): mark positions, place and align the PVX Singlemounts.

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 Singlemount
https://youtu.be/nOaZlEsZi5w

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

3D / augmented reality PVX Singlemount
https://vulp.studio/pvxmultimount/pvxsinglemount/nl-...

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

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