PVX Mounting Systems®
THE STANDARD IN CABLE MANAGEMENT

INSTALLATION MANUAL

PVX CABLE MANAGEMENT · FLAT ROOF

PVX MULTISTRAP+®

Mounting tubes and M8 applications on the flat roof, step by step.



A PART A · PAGE 3
TUBE
2 tubes Ø 16–32 mm or 1 tube Ø 16–100 mm

B PART B · PAGE 5
M8 APPLICATION
For example cable tray or cable ladder, max. 300 mm wide

1 · INTRODUCTION

ABOUT THIS MANUAL.

The PVX Multistrap+® is a wind certified and FEM-analysed mounting system from PVX Mounting Systems for mounting tubes and M8 applications 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 tube and M8 application.

This manual describes the installation of **tubes (part A)** and **M8 applications (part B)**. Steps 1 to 3 apply to both.

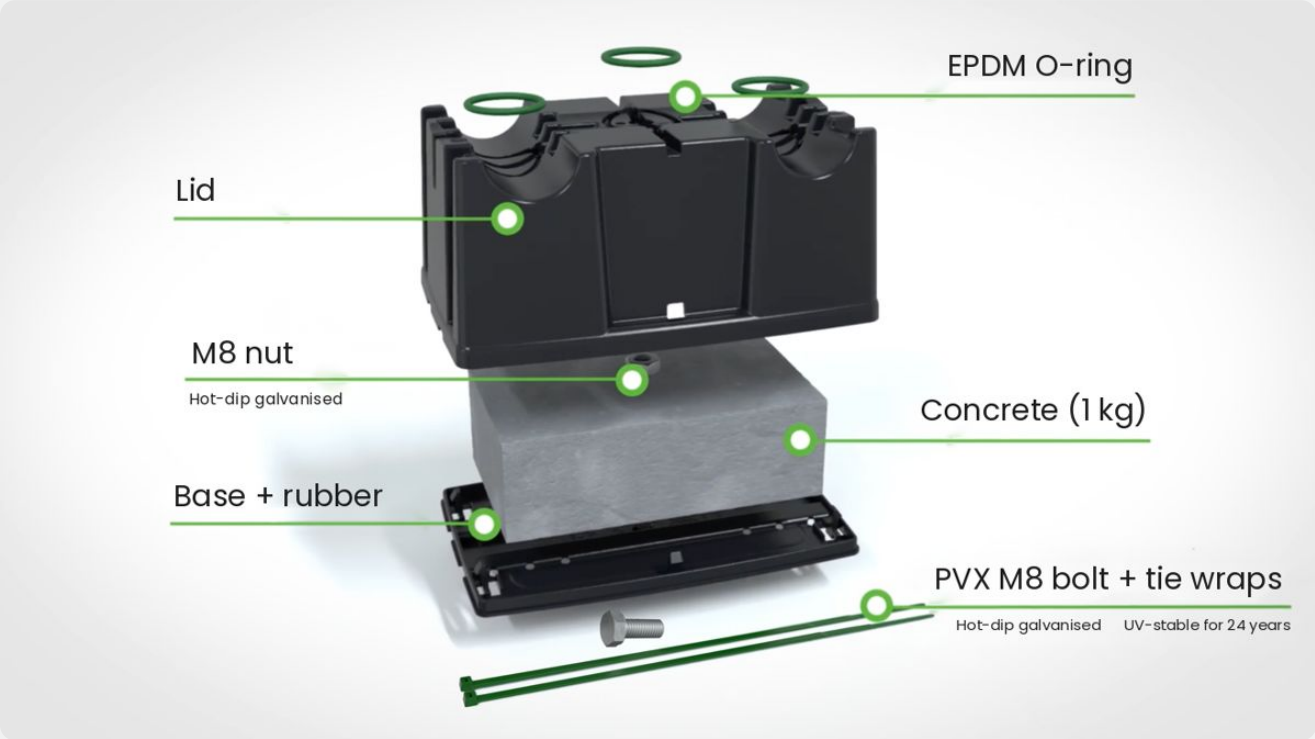


Figure 1.1 – PVX Multistrap+, exploded view

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 MULTISTRAP+.

Steps 1 to 3 apply to both tube and M8 application.

1 Preparation

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

2 Placement

Place the PVX Multistrap+ in line along the cable route, with the base rubber fully on the roof surface.

3 Alignment

Check the alignment with a straight edge or tube. Adjust the positions slightly if necessary.

THE MANUAL AT A GLANCE

FROM ROOF TO DONE.

1 2 3

Prepare

mark · place · align

›

A **Tube**

page 3–4

or

B **M8 application**

page 5–6

›

✓

Done

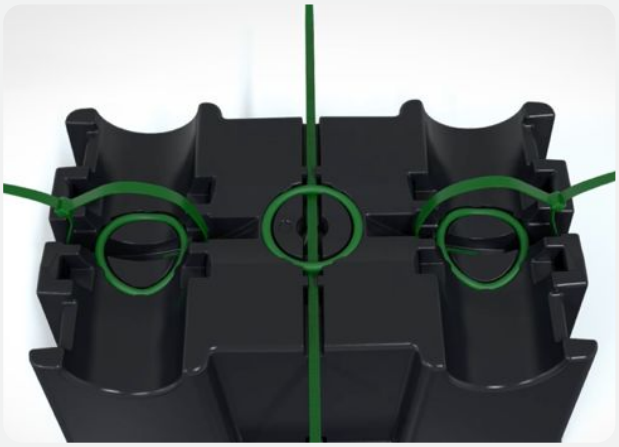
save the project PDF from the PVX Calculator

A PART A · TUBE

A1 Prepare the tie wraps

Insert the required number of tie wraps through the tie wrap openings in the PVX Multistrap+. You can also do this after the tube has been placed.

> **Note:** the supplied tie wraps (200 × 4.8 mm, UV-stable for 24 years) are suitable for tubes up to Ø 50 mm. For larger diameters, use your own tie wraps 4.8 mm wide and of a suitable length.



A PART A · TUBE

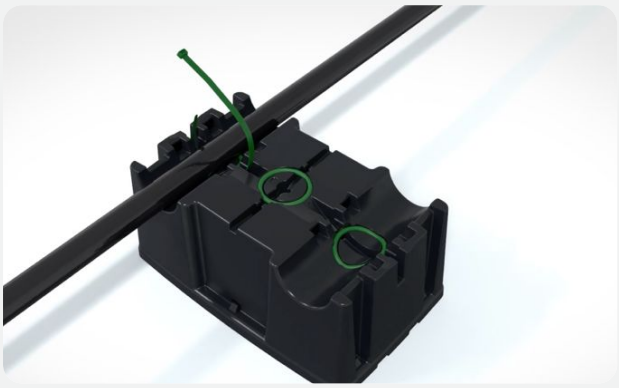
A2 Place the tube

On a PVX Multistrap+ you can lay two thin tubes in the tube channels, or one tube on top of the tube channel.

1 Two tubes in the tube channel

Tube Ø 16–32 mm

Lay the tubes in the tube channels and check that they sit correctly in the tube channel.



2 One tube on the tube channel

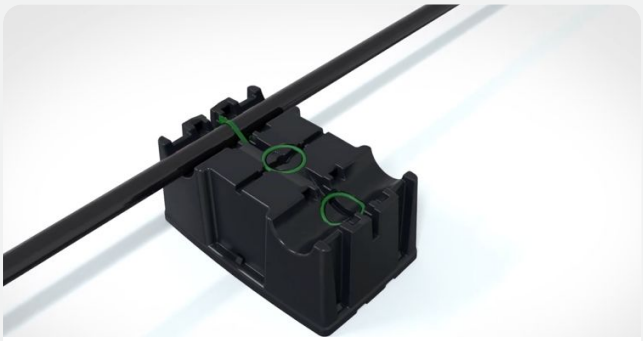
Tube Ø 16–100 mm

Lay the tube on top of the PVX Multistrap+ and check that it sits correctly on the tube channel.



A3 Secure the tube

Secure the tube by pulling the tie wrap tight. Cut off the excess neatly.



Tube Ø 16–32 mm secured



Tube Ø 16–100 mm secured

A4 Final inspection

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

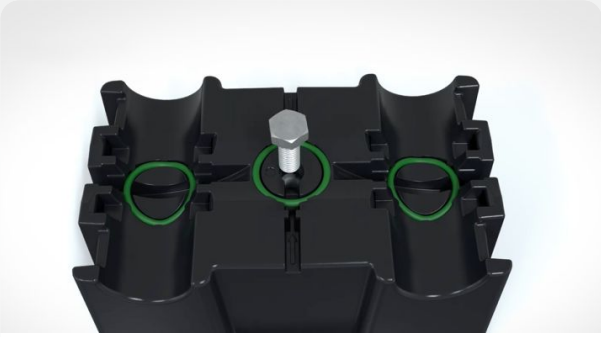
Done. Save the project PDF from the PVX Calculator. You need it as proof for the application warranty.

B PART B · M8 APPLICATION

For example cable tray or cable ladder, maximum 300 mm wide. First carry out steps 1 to 3 (page 3).

B1 Remove the M8 bolt

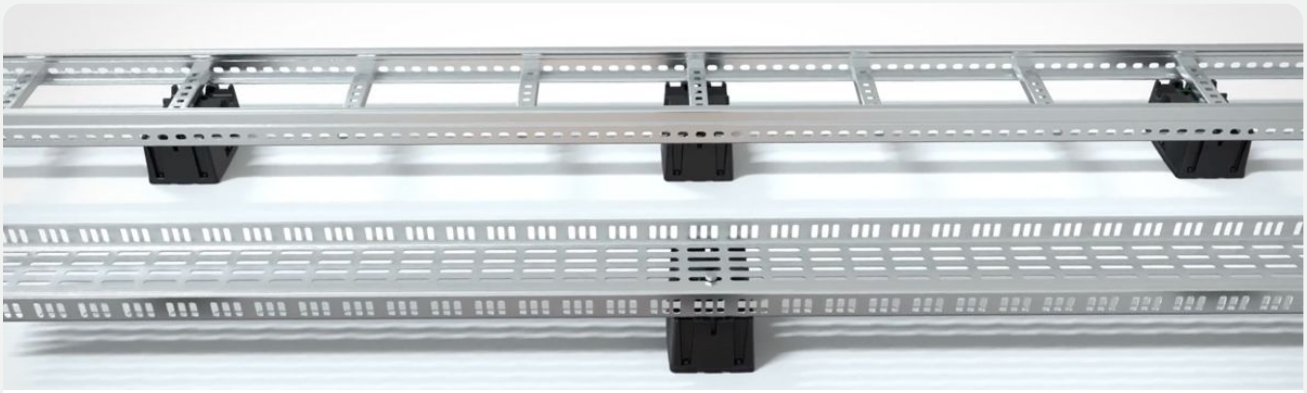
Unscrew the pre-assembled M8 bolt from the PVX Multistrap+.



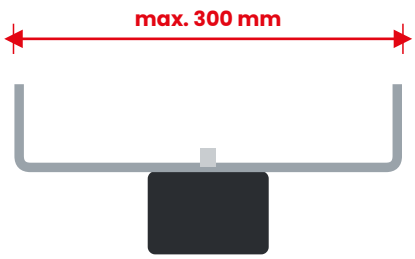
B1 – Unscrewing the M8 bolt

B2 Place the M8 application

Place the M8 application on the PVX Multistrap+ and check that it rests correctly and stably on the support. The maximum width is 300 mm.



B2 – Examples: cable ladder and cable tray on the PVX Multistrap+

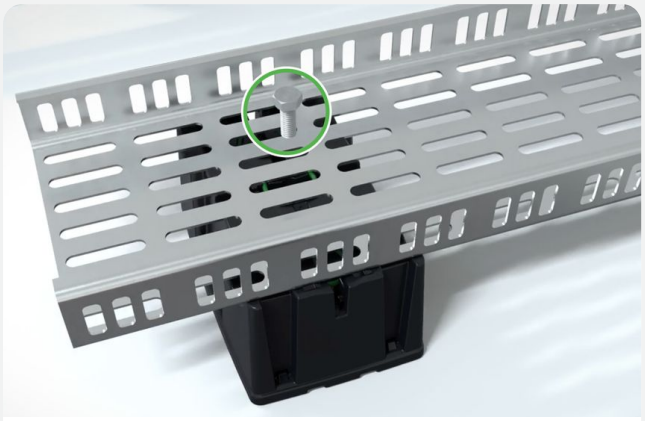


Red: width of M8 application max. 300 mm

B PART B · M8 APPLICATION

B3 Tighten the M8 bolt

Fix the M8 application with the supplied M8 bolt and tighten it firmly. The green circle marks the M8 bolt.



B3 – Fitting the M8 bolt



M8 bolt fitted

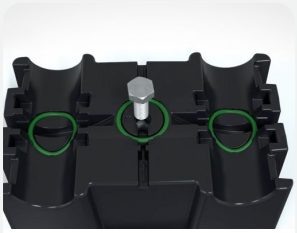
B4 Final inspection

Walk the entire route: are all PVX Multistrap+ positioned correctly, is the alignment maintained and is the M8 application properly secured and supported everywhere?

Done. Save the project PDF from the PVX Calculator. You need it as proof for the application warranty.

PART B AT A GLANCE

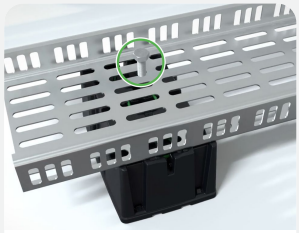
M8 APPLICATION IN 4 STEPS.



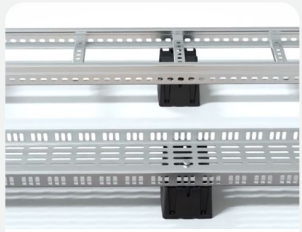
B1 M8 bolt out



B2 Place M8 application



B3 Tighten M8 bolt



B4 Check

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

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 Multistrap+
https://youtu.be/A6G7igiPmHU

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

3D / augmented reality PVX Multistrap+
https://vulp.studio/pvxmultimount/pvxmultistrap/nl-N...

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

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