



**PVTUBE**  
BY CONDUCT

Designed to protect



ROOF TERMINAL

## Roof terminal

A safe solar panel installation is essential. To help achieve this, the NZEB (Nearly Zero Energy Building)-guidelines requires DC cabling to be routed separately and airtight through the building envelope.

In order to route the solar cable from the outside to the inside in an airtight manner in accordance with the NZEB-guidelines, Conduct offers the PVtube.



- Contributes to achieving energy performance.
- Prevents damage to cables due to mechanical stress.
- Contributes to fire safety due to separate conduit in accordance with NPR5310.
- Double insulation prevents thermal bridge.
- Available as a single basic set.

## NZEB

All new construction, both residential and non-residential, must meet the Nearly Zero Energy Building (NZEB) requirements.

These new building codes set requirements for maximum energy need, fossil energy use and renewable energy generation of buildings. This means that new homes and buildings must take into account proper insulation of the building envelope, energy-efficient installations and the use of renewable energy.

## Less energy loss

As a result of the new NZEB requirements, floors, walls and roofs must be constructed based on a maximum heat transfer coefficient (the amount of heat transmitted per second, per m<sup>2</sup> and per degree of temperature difference between the two sides of a roof or roof structure).

For the roof a heat transfer coefficient of 6.3 W/m<sup>2</sup>K applies.

To achieve the maximum heat transfer coefficient, the prevention of a linear thermal bridge (or cold bridge) is essential. Holes in the structure due to cable entry should be sealed for this reason.

Proper sealing not only prevents energy loss, but also moisture problems and mold growth. So it is absolutely vital to seal the point where solar panel cabling enters the roof. This can be achieved by using airtight cuffs and cable conduits.

## A perfect seal

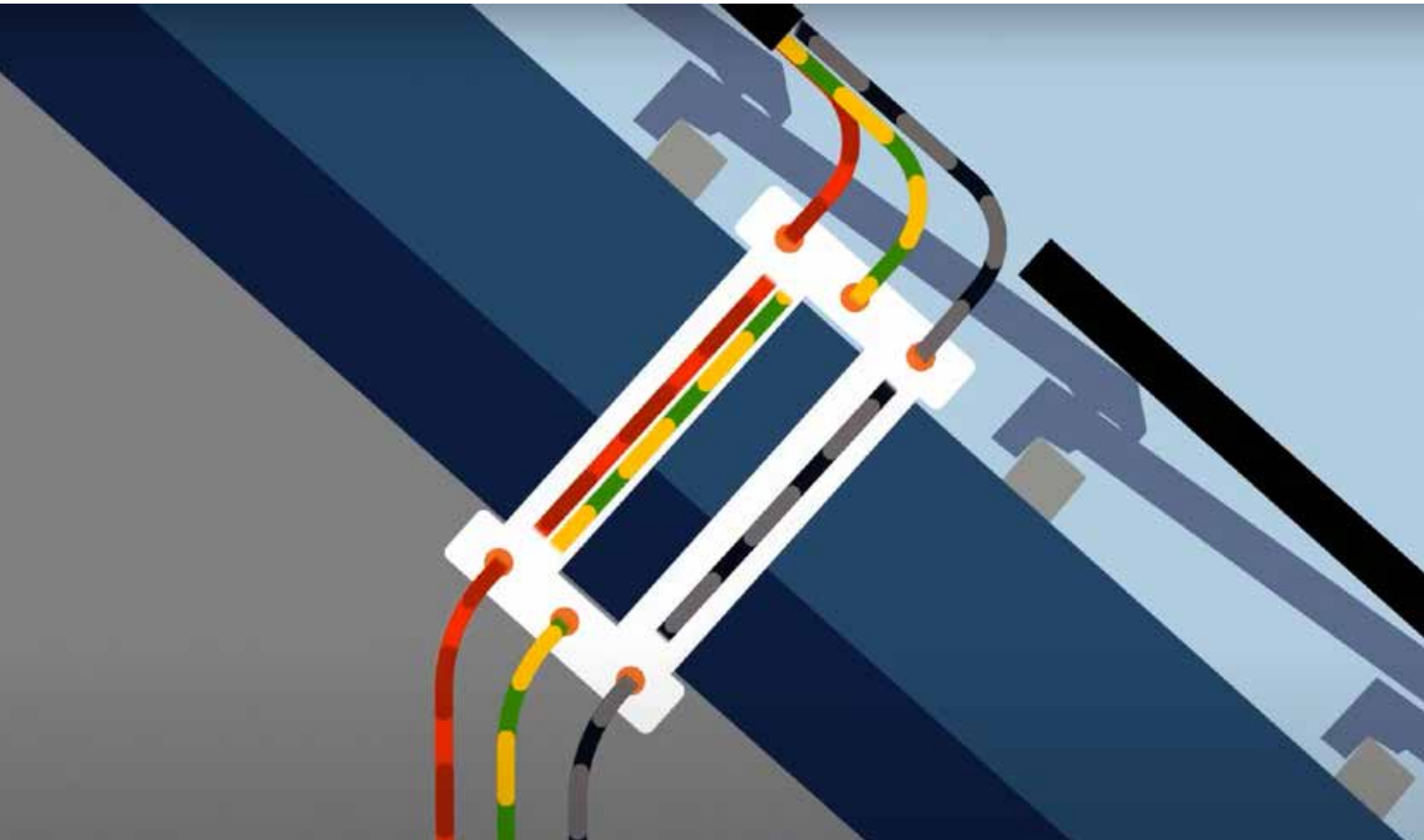
The PVtube provides a perfect seal around the cables, preventing leakage of air and water. This improves the energy efficiency of buildings and thus reduces CO<sub>2</sub> emissions.

### Easy installation

The installer has two easy ways to install the PVtube. By using the included centre distance sticker, you can choose to drill two 32 mm holes. It is also possible to drill one 152 mm hole, after which the PVtube can be installed rapidly, optionally in combination with the RockWool insulation cylinder.

### Operation

PVtube meets these more stringent guidelines with two enclosed, tube-connected conduit caps. Rubber rings are used to seal these caps against the roof boarding. This meets the requirements for airtightness along the tubes. The use of glands provides airtightness through the tubes. In accordance with NPR5310, these tubes are placed at a centre distance of 10 cm as standard.



### Integration into designs

Our cable conduit is made of high-quality materials and is durable, reliable and easy to use. The PVtube is suitable for flat and pitched roofs and can be easily integrated into your designs. With this high-quality roof conduit, you can be confident that your projects will meet NZEB requirements and contribute to a more sustainable future.



**STEP-files**

### STEP files

Integrate PVtube seamlessly into your designs with our STEP-files. The PVtube STEP-files can be downloaded from the Conduct website for product design, visualisation and engineering purposes.



### Flatroof adapter

We present our FlatRoof adapter for PVtube: the ultimate solution for routing cabling through flat roofs.

The adapter is specifically designed for installing PVtube on flat roofs. The aluminum FlatRoof adapter has a diameter of 500 mm and is easily mounted on the PVtube.

The roofer places the PVtube including adap-

ter with its outer edge under the bitumen or PVC layer, then attaches the additional layer of roofing material to the existing surface. By using the adapter, the airtight and waterproof properties of the PVtube are maintained and a neat and quick finish is ensured. The FlatRoof adapter is designed for use in conjunction with the PVtube roof conduit. These are seamlessly connected with each other, creating a draining effect.



### PVTUBE



The solution for fireproof and airtight cable routing.

PVtube 1 to 2 strings

Item code: PVT-1S

PVtube YMK M20

Item code: PVT-AC

### PVTUBE ACCESSORIES



**PVtube 152 mm drill bit**  
with hex shank  
Diameter: 152 mm

Item code: PVTB152



**PVtube aluminium cuff for flat roof installations**

Diameter: 500 mm

Item code: PVT-FLATROOF



**PVtube graphite board**

Fire-retardant  
Diameter: 150 mm

Item code: PVT-GP



PVtube cuff

Item code: PVTM35

### PVTUBE ACCESSORIES



**PVtube 35 mm drill bit**  
with hex shank  
Diameter: 35 mm

Item code: PVTB35



**Adapter for 35 mm drill bit**  
to SDS-PLUS hex shank

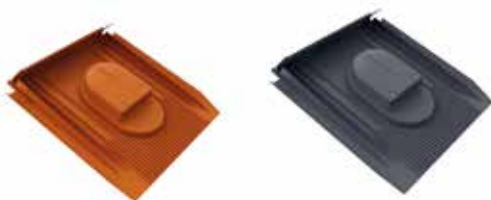
Item code: PVTB35ADAP



**PVtube insulation cylinder**  
Diameter: 152 mm

Item code: PVTR152

### PVTILE



Use PVtile in combination with PVtube as an optimal airtight and durable conduit for solar cables.

PVtile red

Item code: PVTILE.RO

PVtile anthracite

Item code: PVTILE.AN

### PVTILE

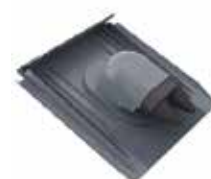


PVtile anthracite for solar water heater

Item code: PVTILE.HEAT.AN

Also available in red:

Item code: PVTILE.HEAT.RO



PVtile anthracite for AC

Item code: PVTILE.AC.AN

Also available in red:

Item code: PVTILE.AC.RO

### We work with you

For us, providing service and support to our customers is paramount. Whether it's innovative solutions, custom projects or providing the best service, we are here to support you. Let us know how we can help and we will work with you to find the best solution.

Moreover, we supervise projects from A to Z and many of our products are readily available from stock. This means we can support your project efficiently, and provide you with the products you need quickly. Together we will make your project a success.

### Ordering and contact

Conduct's product range is available from several distributors in the Netherlands and abroad. Scan the QR code below for a complete list of our partners and to access points-of-sale directly.

### Need more information?

Contact us at [info@conduct.nl](mailto:info@conduct.nl) or +31 (0)180-531120.

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