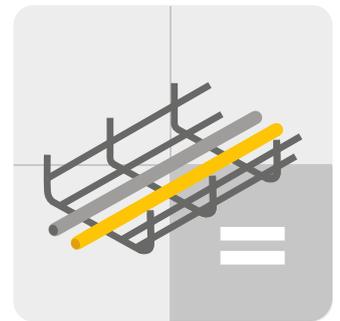




User manual



ValkCableCare Calculator

www.valkcablecarecalculator.com

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About the ValkCableCare Calculator

Van der Valk Solar Systems is the one-stop shop for PV-mounting system and cable management components. We value safe and secure cable management for all solar applications. Our goal is to offer smart solutions that protect your cables during and after installation.

To make planning easier, the ValkCableCare Calculator has been developed as a dedicated and user-friendly online tool designed for our cable management systems. The calculator allows you to quickly and accurately design your cable layout, perfectly matched to our PV mounting systems. Based on the selected items, certain options and components are automatically shown or hidden, ensuring that only relevant configurations are displayed for each project.

In a few simple steps, you can create an optimized plan and automatically generate a complete bill of materials, ready to order from your preferred distributor.

This manual provides step-by-step guidance on how to use the ValkCableCare Calculator, from entering contact details to generating the final BOM file. Each stage of the process is clearly explained for both new and experienced users.

The calculator also includes links to online documentation. It is recommended to review these resources regularly to ensure that all projects are created using the most up-to-date information.

Starting the ValkCableCare Calculator

This section explains how to start using the [ValkCableCare Calculator](#).

Selecting the language

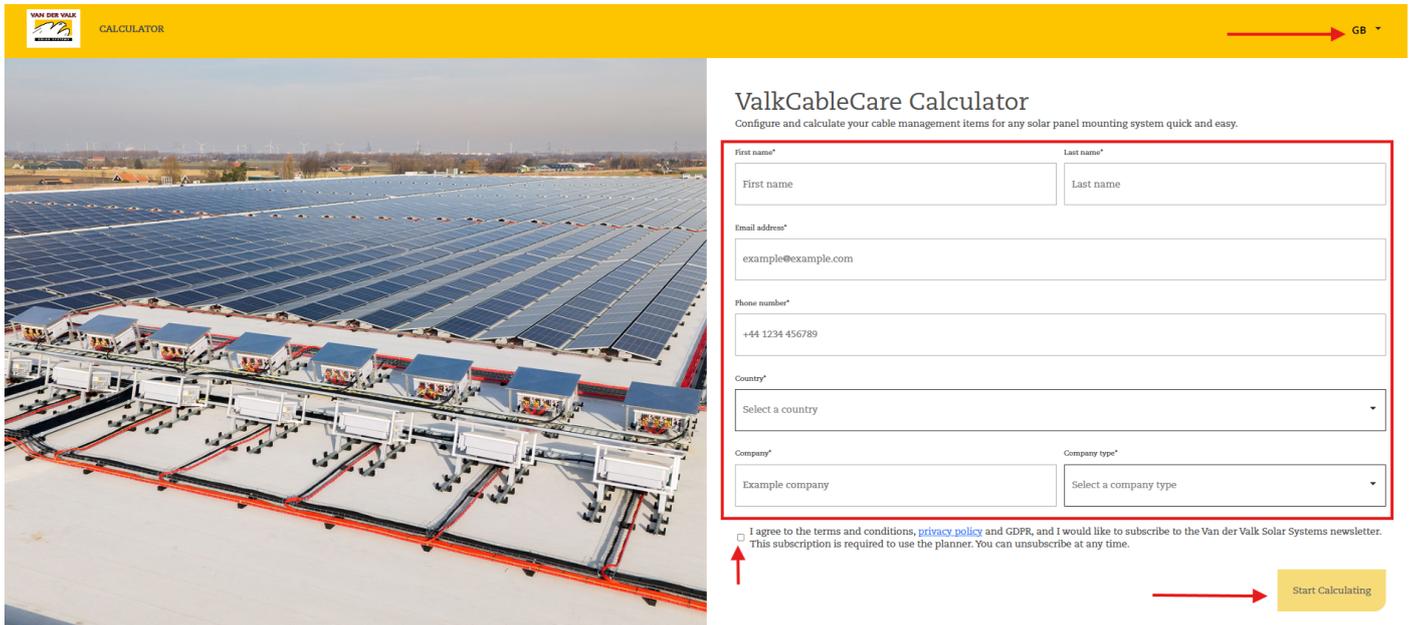
When you open the ValkCableCare Calculator, the first step is to select your preferred language. The dropdown menu in the top-right corner of the screen allows selection of the required language. The language setting can also be changed later if desired.

Entering your details

Fill in your personal and company information: **first name, last name, email address, and phone number.**

Use a company email address to ensure proper access and communication, as the generated Bill of Materials file will be sent to this address. Verify that the phone number is entered correctly, including the country code.

Continue by selecting the country from the dropdown list. The currency, either **euro (€)** or **pounds (£)**, is automatically determined by the selected country. Then enter the company name and choose the appropriate company type.



ValkCableCare Calculator
Configure and calculate your cable management items for any solar panel mounting system quick and easy.

First name*
Last name*

First name
Last name

Email address*
example@example.com

Phone number*
+44 1234 456789

Country*
Select a country

Company*
Company type*

Example company
Select a company type

I agree to the terms and conditions, [privacy policy](#) and GDPR, and I would like to subscribe to the Van der Valk Solar Systems newsletter. This subscription is required to use the planner. You can unsubscribe at any time.

Start Calculating

Accepting the terms

Tick the box to confirm that you agree with the Terms and Conditions, privacy policy, and GDPR notice. Subscription is required to use the calculator, but you may unsubscribe from the newsletter at any time.

Once all information is entered correctly, click **Start Calculating** to begin using the calculator.

Project Overview and Adding Sections

After entering your details, the Project page is displayed. This is the main workspace where all sections of your project are shown. Each configuration you add will appear here as an individual section.

Adding a new section

To begin building your project, click **Add section** in the highlighted box. Each section represents one configuration, for example, a specific roof area, roof type, or cable basket system.

You can add as many sections as needed to match the different layouts or system types within your project. All created sections are listed on this page for easy access and editing.



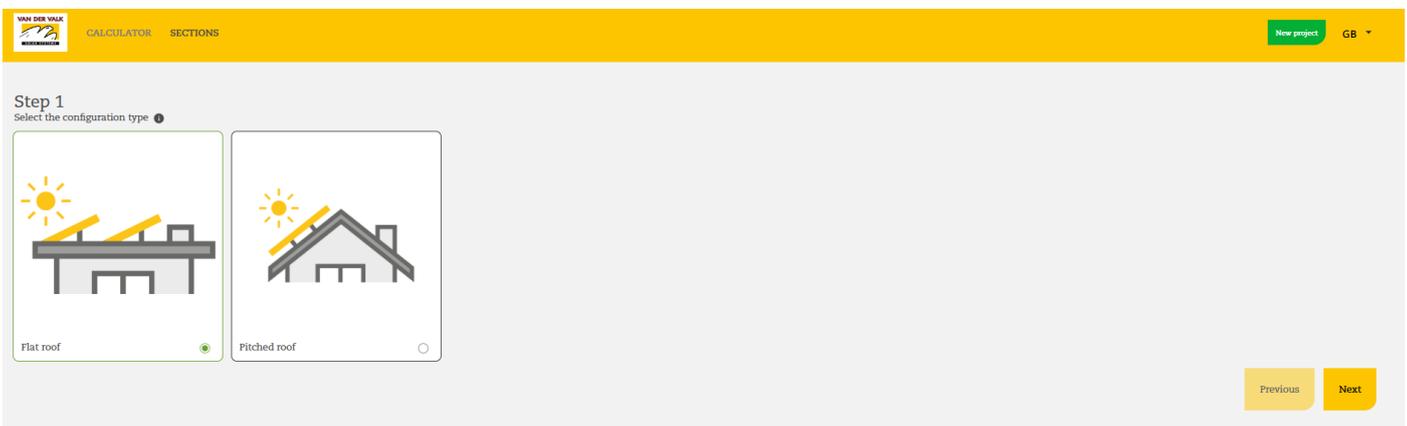
Step 1 - Selecting the configuration type

After clicking **Add section**, the configuration setup begins.

In Step 1, select the configuration type for your project. Choose between Flat roof or Pitched roof, depending on your mounting surface. Once selected, click Next to continue.

Most functionalities are identical for both configuration types. The only differences relate to the mounting methods for the cable baskets, which are explained separately in **Step 3**.

*In this guide we will continue with the **Flat roof** configuration as the example.*

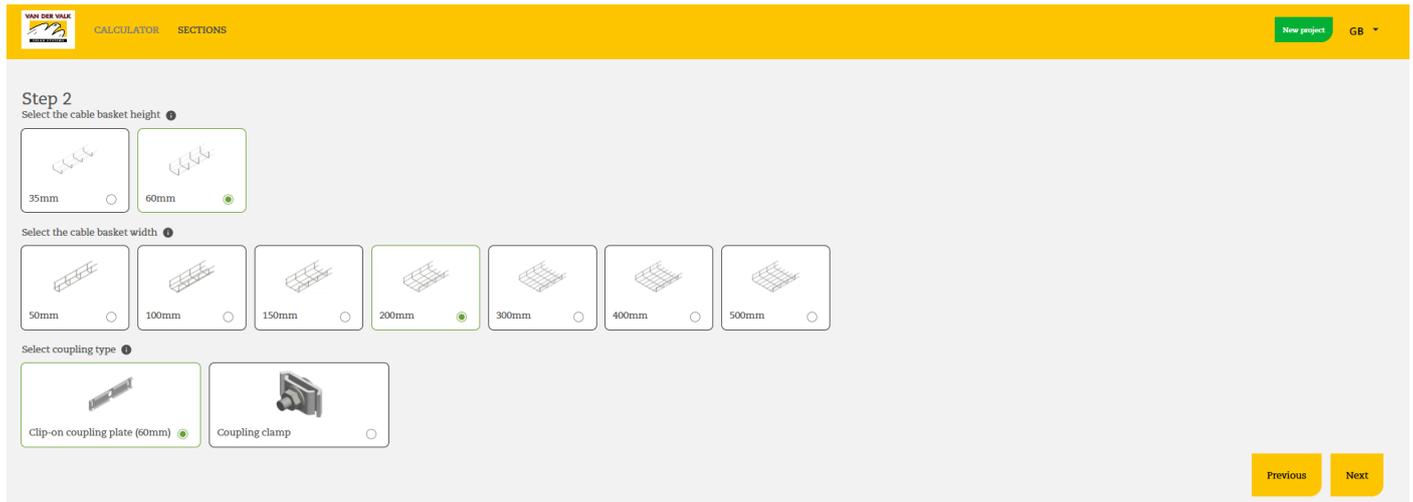


Step 2 - Selecting Cable Basket Dimensions

In Step 2, you will define the dimensions and coupling type of the cable basket used for routing and supporting cables in your installation.

Selecting the cable basket height

Start by selecting the cable basket height. Choose the option that best fits your project requirements.

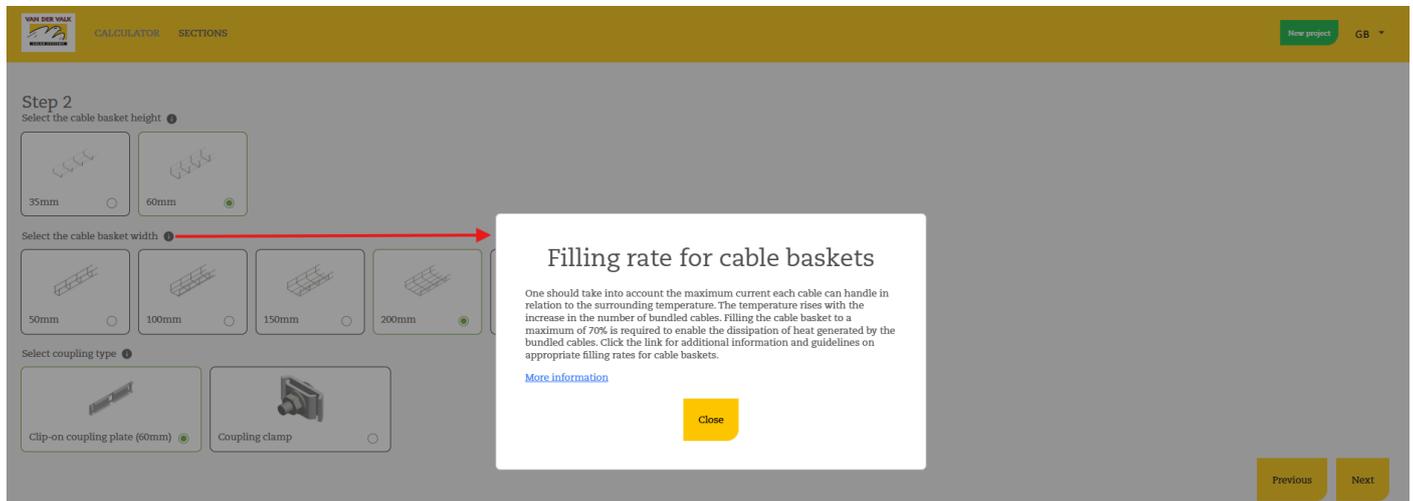


Selecting the cable basket width

Select the cable basket width. Several standard sizes are available, depending on the selected height, ranging from **50 mm** to **500 mm**.

The calculator will automatically filter the available widths depending on the chosen height.

Where additional information is available, the calculator provides an information **icon (i)**. Click this icon for a short explanation or additional tips when planning your cable management. For example, when choosing the basket width, a note appears about filling rates for cable baskets, including a link to the **ValkCableCare Catalogue** for further details and guidelines.



Selecting the coupling type

Select the preferred coupling type used for connecting multiple cable baskets. You can choose between clip-on coupling plates or universal coupling clamps.

After all configuration options have been selected, click **Next** to continue.

Step 3 - Selecting the Mounting Method

In Step 3, you define how the cable basket will be mounted. This includes selecting the mounting method, row configuration, and supporting distance.

Selecting the mounting method

Select the mounting method that corresponds to the project setup. The available options depend on the selected roof type.

Pitched roofs:

For pitched roofs, the following options are available: Trap. & Side++ profile, Trapezoidal roof, Vertical mounting, or None.

The screenshot displays the 'Step 3' configuration screen. At the top, there is a navigation bar with 'VAN DER VALK' logo, 'CALCULATOR', 'SECTIONS', 'New project', and 'GB'. The main content area is titled 'Step 3 Select the mounting method'. It features four large selection cards: 'Trap. & Side++ profile', 'Trapezoidal roof', 'Vertical mounting', and 'None'. Below these are three smaller selection groups: 'Single or double row' with 'Single row' and 'Double row' options, and 'Supporting distance' with '1m' and '1.5m' options. At the bottom right, there are 'Previous' and 'Next' buttons.

Flat roofs:

The available options include Support block, Across roof carrier, Vertical mounting, or None.

Step 3
Select the mounting method

Support block Across roof carrier Vertical mounting None

Single or double row

Single row Double row

Supporting distance

1m 1,5m

Previous Next

Certain mounting methods may or may not be applicable depending on the chosen dimensions of the cable baskets set-up. The calculator will automatically filter out inapplicable mounting methods.

Selecting a single or double row

Specify whether the installation uses a Single or Double row configuration. Choosing the row configuration affects the final article calculations. For example, selecting a Double row automatically doubles the number of cable baskets and accessories required and adjusts the mounting materials according to the section length.

Click the info icon to view additional information.

Selecting the supporting distance

Set the **supporting distance**, which defines the spacing between support features for the cable basket. The available options are **1 m** and **1.5 m**, depending on load and structural requirements. Some mounting methods have a set value will be applied automatically.

Once all selections are complete, click **Next** to continue to the next step.

Step 4 - Calculating Section Requirements

In Step 4, you define the total section lengths and special couplings required for your section. This step ensures that all elements are accurately calculated before generating the bill of materials.

Defining section lengths

Enter the **total section length in meters** for each configuration. You can specify:

- Section length in meters for cable baskets
- Section length with cover in meters.
- Section length with divider in meters for sections where cables are separated in one cable basket.

The value can be entered manually, or the **plus (+)** and **minus (-)** buttons can be used to adjust it as needed.

The section length refers to the length of the route on the roof, not specifically the total length of required cable baskets but can indirectly be identical.

CALCULATOR SECTIONS
New project
GB ▾

Step 4
Calculate section requirement ●

| | | |
|--|---|--|
| Section length in meters ● <div style="display: flex; align-items: center; gap: 5px;"> -1 <input style="width: 40px; text-align: center;" type="text" value="20"/> m +1 </div> | Section length with cover in meters ● <div style="display: flex; align-items: center; gap: 5px;"> -1 <input style="width: 40px; text-align: center;" type="text" value="15"/> m +1 </div> | Section length with divider in meters ● <div style="display: flex; align-items: center; gap: 5px;"> -1 <input style="width: 40px; text-align: center;" type="text" value="0"/> m +1 </div> |
|--|---|--|

Calculate components for special couplings ●

| | | | |
|--|---|---|---|
| Long Radius Bend <div style="display: flex; align-items: center; gap: 5px;"> -1 <input style="width: 40px; text-align: center;" type="text" value="1"/> +1 </div> | Short Radius Bend <div style="display: flex; align-items: center; gap: 5px;"> -1 <input style="width: 40px; text-align: center;" type="text" value="0"/> +1 </div> | T-piece <div style="display: flex; align-items: center; gap: 5px;"> -1 <input style="width: 40px; text-align: center;" type="text" value="1"/> +1 </div> | Cross Piece <div style="display: flex; align-items: center; gap: 5px;"> -1 <input style="width: 40px; text-align: center;" type="text" value="0"/> +1 </div> |
|--|---|---|---|

Previous
Finish

Calculating components for special couplings

Here, you can calculate the components required to make special couplings by adding the number of couplings you need to incorporate, such as:

- **Long Radius Bend**
- **Short Radius Bend**
- **T-piece**
- **Cross Piece**

This value will automatically calculate the number of coupling clamps and plates required to make the coupling.

Adjust the quantity for each component according to your project design.

Information icons are available besides each category for additional explanations and guidelines.

Once all inputs are complete, click **Finish** to confirm your configuration and proceed to the results page.

Managing Project Sections

After clicking **Finish**, the **Project** page reappears, displaying an overview of your completed section(s). Each section summarizes the selected configuration, including cable basket dimensions, coupling type, mounting method and total section lengths. This summary allows you to quickly verify that all inputs are correct before generating the Bill of Materials (BOM).

Editing or deleting a section

To make changes to an existing section, click the **pen icon** to reopen and edit its configuration. **If** a section is no longer needed, click the **cross (x)** icon to delete it from the project.

The screenshot shows the 'SECTIONS' tab of the calculator. At the top, there is a navigation bar with 'VAN DER WALK' logo, 'CALCULATOR', 'SECTIONS', 'New project', and 'GB'. Below the navigation bar, the 'Project' section is visible. On the right side of the project area, there is a 'Generate BOM' button. The main content area displays a single section with the following details: 'Section 1', '200mm width, 60mm height', 'Clip-on coupling plate (60mm), Support block, Double row', 'Section length: 20m, Section length with covers: 15m, Section length with divider: 0m', and 'Short radius corner: 0, Long radius corner: 1, T-pieces: 1, Cross pieces: 0'. To the right of this text are two icons: a pencil (edit) and a cross (delete). Below the section details is a dashed yellow box labeled 'Add section'.

Adding more sections

You can easily add additional configurations by clicking **Add section**. Each new section will appear in the list below the previous one. This allows you to manage multiple roof areas or mounting types within a single project.

The screenshot shows the 'SECTIONS' tab of the calculator with two sections listed. The first section is identical to the one in the previous screenshot. The second section is 'Section 2', with details: '150mm width, 35mm height', 'Coupling clamp, Rubber tile carrier (729622/29), Double row', 'Section length: 10m, Section length with covers: 8m, Section length with divider: 0m', and 'Short radius corner: 0, Long radius corner: 1, T-pieces: 0, Cross pieces: 0'. Each section has edit and delete icons. Below the sections is a dashed yellow box labeled 'Add section'.

Generating the Bill of Materials

When all sections are completed, click **Generate BOM** (Bill of Materials) to create the full article list for your project. The BOM will include all components required for the selected configurations.

Reviewing and Exporting the Bill of Materials

After clicking Generate BOM, the Bill of Materials page opens. This page allows you to verify your contact information, review calculated materials, and export your results.

Verifying contact information

At the top of the page, your contact and company details are displayed. Check that all information is correct before continuing.

If any changes are needed, click the **Edit** button on the right side to update your details.

Filtering the material view

Below the contact section, use the **View by section** dropdown menu to filter the Bill of Materials. It is possible to display items for all sections combined or for individual sections separately. The email you receive will include the full Bill of Materials.

Bill of materials

First name* Alex | Last name* Johnson | E-mail address* alex.johnson@solar-testgroup.com

Phone number +44 7712 345678 | Country* United Kingdom

Company name* Solar Test Group Ltd | Company type* Installer

View by section: All sections

| Article # | Description | Packaging # | Calculated | Extra | Total # | Weight p.pc. | Total weight | Price p.pc. | Total |
|-----------|--|-------------|------------|-------|---------|--------------|--------------|-------------|--------|
| #762001 | Galvanized coupling clamp cable basket | 100 | 23 | | 23 | 0.022 kg | 0.506 kg | £1.61 | £37.03 |
| #762002 | Clip-on coupling plate (60mm) | 30 | 24 | | 24 | 0.11 kg | 2.64 kg | £1.67 | £40.08 |

Adjusting quantities and totals

In the materials table, review the calculated quantities for each article. You can adjust the values manually using the up or down arrows or by entering a value directly.

At the bottom of the table, total weight and total price are displayed automatically. You can also apply a discount percentage if applicable. Enter the desired percentage, then click **Apply** to update the total price.

| | | | | | | | | | | |
|---|-----------------|--|----|---|---------------------------------|---|----------|-----------|--------|---------|
|  | #76010150153000 | Zinc-ala cable basket w=150mm h=35mm L=3000mm | 10 | 8 | <input type="text"/> | 8 | 2.49 kg | 19.92 kg | £75.04 | £200.32 |
|  | #760301502000 | Zink-mag cover for cable basket w=150mm L=2000mm | 10 | 8 | <input type="text" value="-1"/> | 7 | 1.592 kg | 11.144 kg | £33.35 | £233.45 |

All sections

Total weight (kg)
143.84 kg

Total price
£1,873.22

Discount percentage
0 % **Apply**

Total price - including discount
£1,873.22

Export file type
CSV

Add section **Finalize**

Exporting the Bill of Materials

Finally, select how you would like to export or receive your BOM. Choose the preferred file type from the Export file type menu. Available options include CSV, Excel and PDF.

Once everything is reviewed, click **Finalize** to confirm.


CALCULATOR SECTIONS
New project
GB

Bill of materials has been sent

Check your mailbox alex.johnson@solartestgroup.com: the parts list is there, always within reach. Can't find it? Then check your spam box.

Would you like to calculate another project? [click here](#) to start a new project.

After clicking Finalize, the confirmation screen appears, indicating that your Bill of Materials has been sent successfully.

An email is automatically sent to the registered e-mail address. Check the inbox for the download link and related details. If the email does not arrive within a few minutes, check the spam or junk folder. In case of any issues, contact ValkCableCare support for assistance at valkcablecarecalculator@valksolarsystems.nl.

Starting a New Project

To create a new project, click the **“Click here”** link on the confirmation screen or use the green **“New project”** button at the top right of the page. A warning message will appear, notifying you that continuing will **clear the current project data**. Confirm to proceed and start a new project.

Please note that the ValkCableCare Calculator does not save projects. As a result, previously created projects cannot be accessed once a new project is started or the calculator is closed.