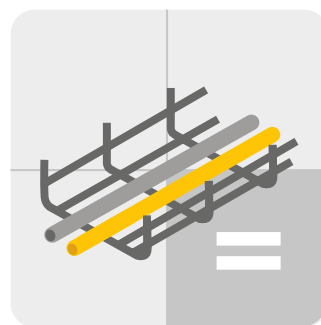




ValkCableCare Calculator

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.

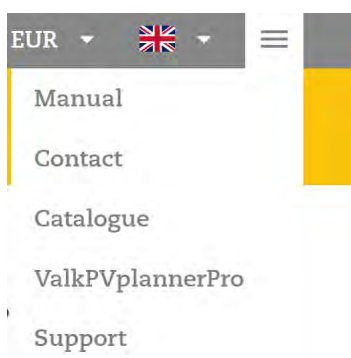
Starting the ValkCableCare Calculator

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

Setting Your Preferences and Navigation

When you open the ValkCableCare Calculator, your first step is to configure your preferences using the menu in the top-right corner of the screen.

- **Selecting the Currency:** Click the currency dropdown (e.g., € EUR) to choose the appropriate currency for your project's pricing.
- **Selecting the Language:** Click the flag icon to open the dropdown menu and select your preferred language. This setting can be changed at any time during your session.
- **Navigation Menu:** Click the hamburger menu icon (the three horizontal lines) to quickly access helpful resources at any point. This menu includes links to the **Manual**, **Contact**, **Catalogue**, **ValkPVplannerPro**, and **Support**.



Entering your details

Fill in your personal, company, and project details in the form fields provided:

- **Personal Info:** Enter your **first name**, **last name**, **email address**, and **phone number** (including country code). Use a company email address so your generated Bill of Materials (BOM) delivers to the correct inbox.
- **Company Info:** Select your **country** from the dropdown menu, then enter your **company name** and choose your **company type**.
- **Project Info:** Enter a **Project name** to identify your setup. You can also add an optional internal tracking code in the **Reference (optional)** field.

€ EUR ▼ 🇬🇧 ▼ ☰

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 ▼

Project name* Reference (optional)

Choose a project name REF-001

☐ I agree with the [disclaimer](#), [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.

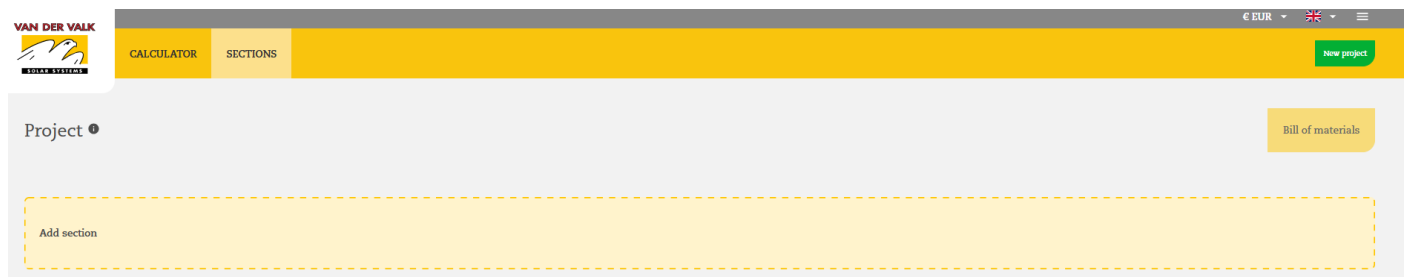
Project Overview and Adding Sections

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.

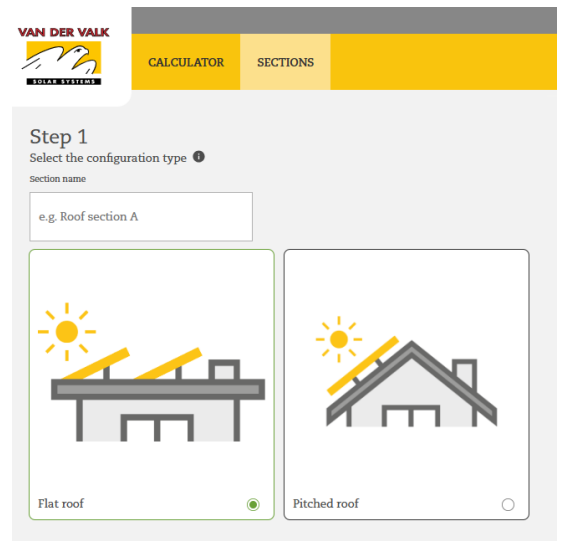
In Step 1, define the section details and choose your mounting surface:

- **Section Name:** Enter a descriptive identifier in the **Section name** field (e.g., "Roof section A") to easily distinguish this section in your project overview and final BOM.
- **Configuration Type:** Select between **Flat roof** or **Pitched roof**, depending on your installation 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.

Step 3
Select the mounting method

Trap. & Side++ profile ☐

Trapezoidal roof ☐

Vertical mounting ☐

None ☐

Single or double row

Single row ☐

Double row ☐

Supporting distance

1m ☐

1.5m ☐

Custom ☐

e.g. 1.2 m

Previous Next

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 ☐ Custom ☒

Custom: - 2 m +

Please note: refer to the relevant load diagrams for the safe permissible load.

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 default options are 1 m and 1.5 m, depending on load and structural requirements.

There is also the option to set a custom supporting distance. Use the plus (+) and minus (-) buttons or type directly in the field to set your required spacing. Please note:

- When setting a custom distance, a yellow warning banner will appear at the bottom of the screen reminding you to refer to the relevant load diagrams for the safe permissible load.
- The Custom distance cannot exceed a maximum of 2.5 meters.

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.

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.

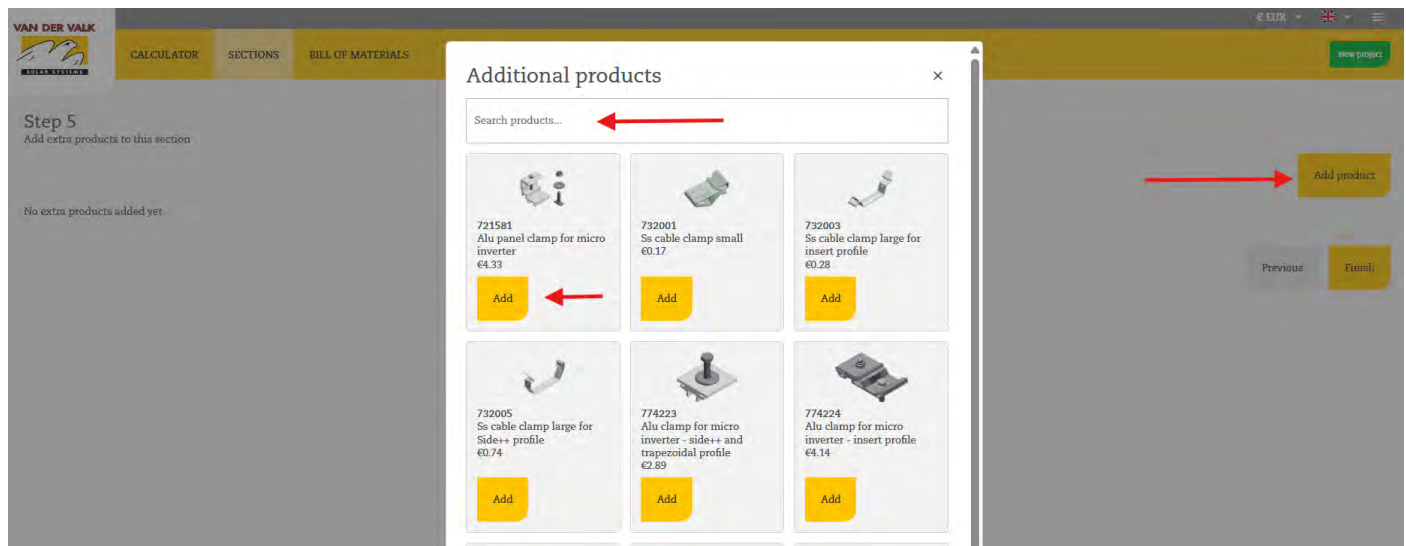
Once all inputs are complete, click Next to confirm your configuration and proceed to **Step 5**.

Step 5 - Adding Extra Products

In the new Step 5, you have the option to add supplementary items to your section. If you do not need any additional products, you can simply click **Finish** to complete the section.

To add extra items:

1. Click the **Add product** button on the right side of the screen. This will open the “Additional products” pop-up window.
2. Use the **Search products...** bar at the top to quickly find a specific item, or browse through the available components (such as cable clamps or PV-shelters).
3. Click the yellow **Add** button under the desired product to include it in your configuration.
4. Once you have added all necessary extra products, click **Finish** to confirm your configuration and proceed to the project overview.



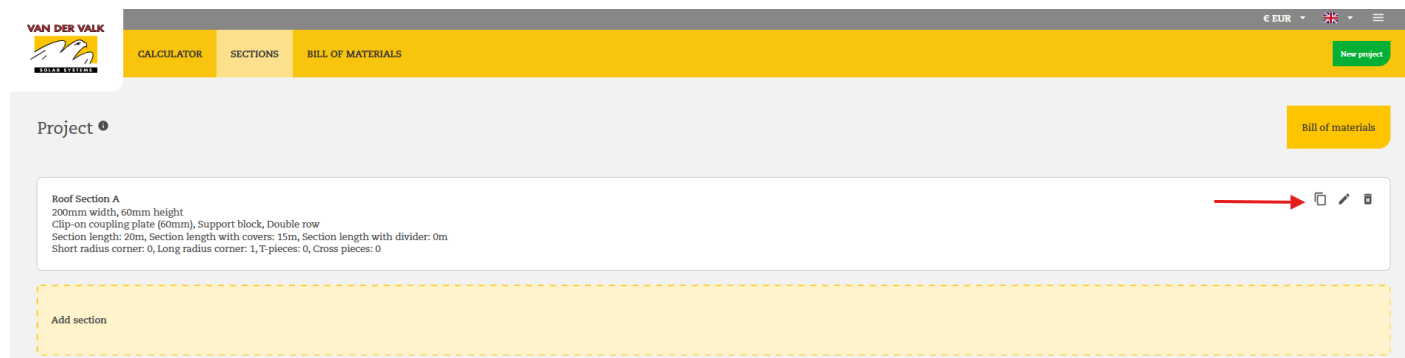
Managing Project Sections

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).

Managing Sections

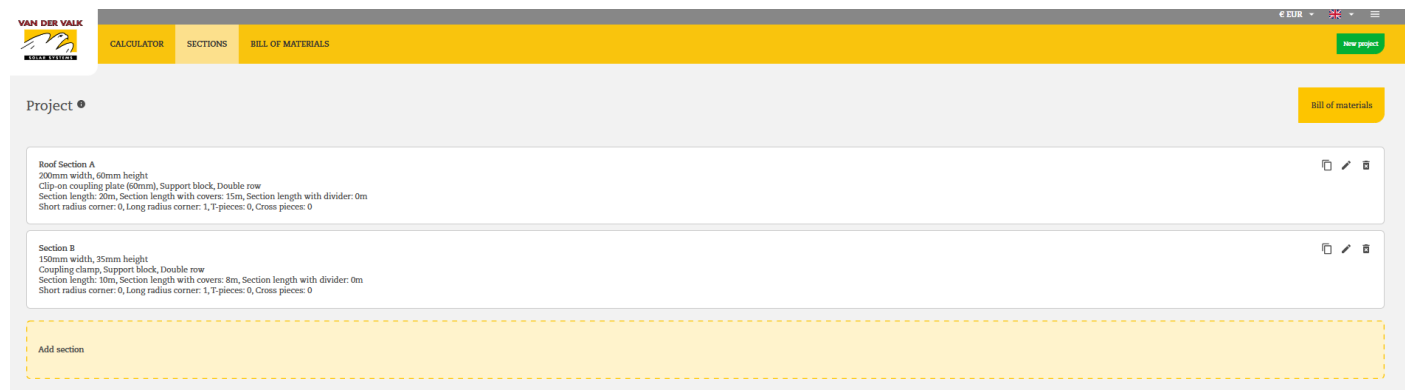
You can easily manage your existing sections using the three icons located on the right side of each section block:

- **Duplicating:** To quickly create an exact copy of a setup, click the duplicate icon (two overlapping squares). This is especially helpful if you have multiple identical areas within your project.
- **Editing:** To make changes to an existing section, click the pen icon to reopen and edit its configuration.
- **Deleting:** If a section is no longer needed, click the trash can icon to delete it from the project.



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.



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, add extra products, 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.

Adding Extra Products If you need to include supplementary items that were not part of your initial section configurations, you can easily add them here. Click the yellow **Add product** button on the right side of the screen to open the product catalogue and add items directly to your total material list.

Filtering the material view

Below the contact section, use the dropdown menu on the left to filter the Bill of Materials. It is possible to display items for all sections combined, for individual sections separately, or to isolate your **Extra products**.

*Please note: In order to finalize the project, you must set this dropdown menu back to **All sections**. The email you receive will include the full Bill of Materials.*

Van der Valk CALCULATOR SECTIONS BILL OF MATERIALS [New project](#)

Bill of materials

First name* Alex Last name* Johnson E-mail address* a.johnson@solardemo.com

Phone number +3198765432 Country* Netherlands

Company name* Solar demo Company type* EPC

Project name* test234 Reference (optional) abc3

[Edit](#)

All sections
 Roof Section A
 Section B
 Extra products

	Perfiling	Calculated	Extra	Total	Weight p.p.c.	Total weight	Price p.p.c.	Total
Aling clamp cable basket	100	20		20	0.022 kg	0.44 kg	€5.79	€55.80
Alplate (pinning)	30	24		24	0.11 kg	2.64 kg	€3.85	€92.40
Galvanized coupling plate cable basket	10	2		2	0.04 kg	0.08 kg	€3.33	€6.66

[Add product](#)

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. Additionally, if you need to remove any manually added extra products, simply click the **trash can icon** next to the item. 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.

	7030150000	Zink-mag cover for cable basket w=150mm L=2000mm	10	8	↓	7	1.592 kg	11.144 kg	€37.06	€259.42	
	721581	Alu panel clamp for micro inverter	75		↑	1	0.111 kg	0.111 kg	€4.33	€4.33	

All sections

Total weight (kg)

149.87 kg

Total price

€2,112.83

Discount percentage

0 % **Apply**

Total price - including discount

€2,112.83

Add section

Finalize

Exporting the Bill of Materials

Once everything is reviewed and correct, click **Finalize** to confirm your project.

Note: You no longer need to select an export file format on this screen. The final Bill of Materials will be sent directly to your registered email address. When you open the email, you will be able to choose your preferred file format (such as CSV, Excel, or PDF) directly from the provided download link.



€ EUR 

CALCULATOR SECTIONS BILL OF MATERIALS

New project

Bill of materials has been sent

Check your mailbox a.johnson@solardemo.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.