

ProSOLRIF

CALCULATOR

SOLI  **TEK**

TUTORIAL FOR USE

Downloading ProSOLRIF

Go to the main page <https://www.schweizer-metallbau.ch/en/products/photovoltaicsystems/prosolrif.html>

The screenshot shows the product page for proSOLRIF. At the top, there is a navigation bar with the company name and a cookie consent banner. Below the navigation, there is a main header with the product name and a description: "Design software for the roof integrated PV mounting system Solrif". A sidebar on the left contains a menu with categories like "Product overview", "Photovoltaic systems", "Range overview", "Technical documents", and "References". The main content area features a screenshot of the software interface and a detailed description of the software's capabilities. A red box highlights the "Download" button, and a text overlay says "Click 'Download'".

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proSOLRIF

Design software for the roof integrated PV mounting system Solrif

proSOLRIF is design software for the roof integrated PV mounting system from Ernst Schweizer AG. Based on building parameter inputs, module types, and wind and snow loads the program calculates the number of structural brackets according to the European standard, Eurocode 1. Besides calculating the structural design, the program creates a bill of materials including any additionally selected components such as flashings.

The new, completely revised version 6.0 was created on our behalf by Solarschmiede. This free version is based on the PVScout design software and is restricted to designing roof configurations. What is new about proSOLRIF 6.0 is the fact that it is now suitable for various roof types that may now also include obstacles (such as chimneys and roof windows). It can calculate monthly or yearly shading, and allows you to add or delete individual modules. A full-featured upgrade to PVScout with integrated proSOLRIF 6.0 is also available for a fee. Additional features include designing inverters and analysing financial returns.

[Download proSOLRIF](#) Click "Download"

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You will need to register in order to download

The screenshot shows the customer login page. At the top, there is a navigation bar with the company name and a cookie consent banner. Below the navigation, there is a main header with the text "Customer Login". A sidebar on the left contains a menu with categories like "Products", "Consulting service/Sales", "Partner", "Company", "News", and "Downloads". The main content area features a login form with fields for "Email" and "Password", and a "Login" button. A red box highlights the text "I have not registered yet and would like to register now.", and a text overlay says "In order to download proSolrif software, first you need to register.".

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Customer Login

Login for customers with passwords

Please enter your email address and password:

Email:

Password:

[Forgot your password?>](#)

[I have not registered yet and would like to register now.>](#) In order to download proSolrif software, first you need to register.

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ProSOLRIF Tutorial

1. Click "Location"

2. Select country and region*

3. If your project is in country which is not included in the list, than you can manually insert average regional wind & snow loads values

4. Choose project location terrain category

5. It is possible to choose snow & wind zone regions*

1.

1. Click "PV generator", then "Preferences"

2. Select roof type

3. Insert roof dimensions and other features

***Example of dimensions positions**

2.

File Edit View Settings Help

New project - proSOLRIF

proSOLRIF based on PVsout

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Project PV generator Bill of materials Presentation

Preferences Roof

Add obstructed area Select PV module Frame system Add module array

Monitor

Status

This subsection lets you choose and position the PV modules.
PV module data filter has been successfully saved.

1. Click "Roof", then "Select PV module"

2. Check mark "Frame", then from the dropdown menu select "Solrif®"

3. Click "Use data filter"

4. From the manufacturers dropdown menu select "Solitek", and then choose a module type from the product list

5. Click "OK"

3.

File Edit View Settings Help

New project - proSOLRIF

proSOLRIF based on PVsout

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Project PV generator Bill of materials Presentation

Preferences Roof

Add obstructed area Select PV module Frame system Add module array

Monitor

Status

1. Click "Frame system"

2. Select "Powder-coated"

3. For the partial roof Solrif system installation - check mark "Flashing" option. For the complete roof installation leave it not checked.

4. Click "OK"

4.

New project - proSOLRIF

File Edit View Settings Help

proSOLRIF based on PVscur

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Project PV generator Bill of materials Presentation

Preferences Roof Add obstructed area Select PV module Frame system Add module array

Monitor

Status
This subsection lets you choose and position the PV modules.

800
700
600
500
400
300
200
100
0 cm

0 cm 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600

1. Click "Add module array"

2. Insert pv modules arrangement (rows, columns)

3. It is possible to insert system location on the roof starting point distances according to x; y axis

4. It is possible to select pv array margin distances from the edges of the roof

5. Click "OK"

5.

Back

Roof (Schweizer data) You have not yet defined a PV generator. Roof

New project - proSOLRIF

File Edit View Settings Help

proSOLRIF based on PVscur

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Project PV generator Bill of materials Presentation

Preferences Roof Add obstructed area Select PV module Frame system Add module array

Monitor

Status

800
700
600
500
400
300
200
100
0 cm

0 cm 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600

*After module array is added to roof, click "Recalculate frame system button"

6.

Back

Roof (Schweizer data) PV generator: Deck 1 42x Sunblüher A 150 P (6,944kWp) Roof

7

Legend

- Flashing clamp: T - Top
- Glass
- Profile
- Top flashing: left, middle, right
- Side flashing: left, right
- Upper left
- Upper right
- Eaves fascia

*After "Recalculate frame system" button is clicked, software automatically calculates all required Solrif system materials, according to your project requirements. Legend helps to understand where every item has to be used. According to this scheme, installer should mount required type and number of items in their specified positions. All the the statics should be checked and verified on the site for every project by a competent specialist.

8.

1. Click "Bill of materials", then "Order list". After that you will see your project bill of materials

2. Click "Export order list"

3. Choose (*.csv) file format, save destination in your pc and then click "Save"

Item	Item number	Manufacturer	Description	Quantity	Packaging unit	Unit
1	SR_INT_14SR	SolTek	SOLID SOLRIF 250W	42	1	Piece
2	05653	Ernst Schweizer AG	Clamp profile SOLRIF D	61	1	Piece
3	05654	Ernst Schweizer AG	Clamp glass SOLRIF D	66	1	Piece
4	19756L	Ernst Schweizer AG	Flashing profile left 986	7	1	Piece
5	19756R	Ernst Schweizer AG	Flashing profile right 986	7	1	Piece
6	18816L	Ernst Schweizer AG	Flashing top left 1645	1	1	Piece
7	18817L	Ernst Schweizer AG	Flashing top right 1645	1	1	Piece
8	18819L	Ernst Schweizer AG	Flashing top middle 1645	4	1	Piece
9	06852L	Ernst Schweizer AG	Flashing side top left	1	1	Piece
10	06853L	Ernst Schweizer AG	Flashing side top right	1	1	Piece
11	19762L	Ernst Schweizer AG	Flashing side left 986	7	1	Piece
12	19763L	Ernst Schweizer AG	Flashing side right 986	7	1	Piece
13	05403	Ernst Schweizer AG	Flashing for flashing	36	1	Piece
14	06801	Ernst Schweizer AG	Protective profile black	5	1	Piece
15	06736	Ernst Schweizer AG	Sealing tape	11	1	m
16	06827	Ernst Schweizer AG	Mage Fix, Aluminium connecting	3	1	Piece
17	v03748	Ernst Schweizer AG	Nut DIN1169 2.6x25	36	1	Piece
18	61931	Ernst Schweizer AG	Part Head Screw, 4.5 x 35 mm	254	1	Piece

Save As

File name: Export order list

Save as type: Export file: bills of material (*.csv)

Export settings

Export order list

File Edit View Settings Help
New project - proSOLRIF

proSOLRIF based on PVsolar

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Project PV generator Bill of materials **Presentation**

Print-out

1. Click "Presentation"

Monitor

Status
In the area of presentation, you may choose from a variety of printouts.

Print out

Pre-selection
Custom selection
Make no selection
Select all
Custom selection

Date for print-out
Last printout

2. It is possible to take few final project report data pre-selection options

PV generator
 Roof diagram
 Roof diagram with shadowing
 Dimensions
 Roof hook and rails
 Roof information
 Roof layout

3. It is possible to select required info manually

Bill of materials
 Order list

Print preview Print

4. Click "Print preview" to look through report file or select "Print" to print report or make pdf. file

9.

Back

Home3 (last edit data) PV-generator: 42x SOLID SOLRIF 250W (10.5kWp) Print-out