

**SolarVenti®**

## Energy Efficient Solutions

From the very **first idea**  
to the **finished product**.  
All **from one source**.

**SIMEX**  
sustainable energy



[www.simex.ch](http://www.simex.ch)

Switzerland 2015/16 Price List

**SolarVenti® Professional**

Effective September 1, 2015

**We are main importers of SolarVenti®'s solar thermal collectors and, right from the start, can offer support with:**

- Detailed counseling and analysis of your environmental conditions
- Feasibility studies and calculation of savings potentials
- Amortization schedule included
- Taking care of all necessary production steps and building applications, CAD-supported preliminary work, etc.
- Planning, assembly and commissioning of the entire system according to your specifications



Are you experiencing **issues with dampness** in your **basement area**?

Would you like to heat your storage facility using **affordable energy** from a **sustainable source**?

Are you looking for a **reliable solution** to **improve the air conditioning** in your home?

## We will find a way. Together.

Thank you for enquiring about our accomplishments and services. SIMEXgroup AG stands for *Swiss quality solutions*, and has done so since 1998. We are systems and innovations partners in composite technology, the integration of telecommunications components and sustainable energy solutions.

Our business DNA is comprised of much of what has always defined Switzerland: a strong drive for the best possible quality and precision, for one, but also our enthusiasm for products and values that will still hold strong in years to come. Our customers and partners appreciate our efficiency, seeing the big picture and passion for developing new solutions just as much as our quick turnaround, problem solving work ethic and our understanding that teamwork is the foundation of joint success.

Business headquarters for our integrated industrial and commercial group are located in Switzerland. We also have a strong international focus. To date, every other product, at least, is launched outside of our domestic market. More and more clients appreciate not just our work ethic and our extensive range of products, but also our synergetic effects and the additional value that can be found across all areas of our business.

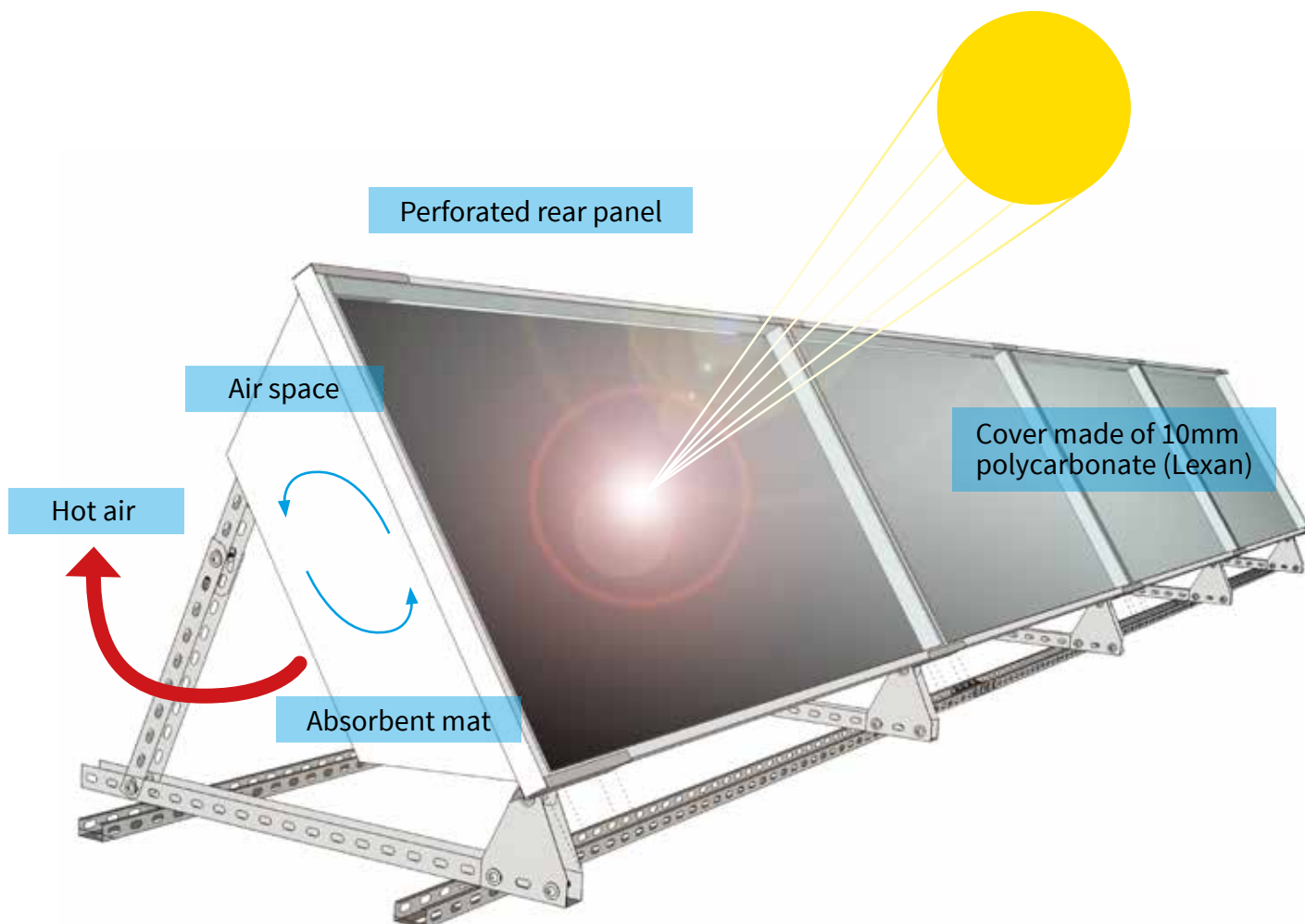
Our **SIMEX Sustainable Energy** branch offers the same benefits:

In times when we are collectively experiencing an increasing need for renewable forms of energy and ever rising fossil-fuel-based energy costs, new paths are all the more important. This applies equally to our private and our professional lives

We consider ourselves to be successful supporters of such pioneering paths. In these particular circumstances we are identifying and marketing sound, economically attractive products, as well as being your number one partner in this line of business and in the big picture. The efficient air heat solar collectors by **SolarVenti**<sup>®</sup> are the perfect example. As Swiss main importers and suppliers of SolarVenti products, we support you in your efforts to optimize and restructure heating and energy management. Based on your individual specifications we design customized all-encompassing solutions - for private vacation homes as well as for industrial warehouses and storage facilities.

Take advantage of our comprehensive service package.

# SolarVenti® Professional Modular Air Collector System



SolarVenti® Professional is a powerful air collector system used to **heat commercial buildings, storage facilities and the like, with solar heat.**

The modular design allows for **flexible and fast mounting on flat roofs, sloped roofs and directly onto a wall.** The system supports a building's heating, particularly in buildings with existing air heating: this combination is the best.

It also serves to improve air quality thanks to the steady inflow of fresh air.

Its patented absorption principle also acts as an effective air filter. It can be integrated into systems of nearly all sizes.



Collector surface (gross)	approx. 1.98m <sup>2</sup>
Absorbent surface	approx. 2.38m <sup>2</sup>
Dimensions in mm (LxWxD)	1,974 x 1,004 x 450
Weight (not including mount)	approx. 7kg
Air volume flow per collector	147 - 404m <sup>3</sup> / hour
Max. output per collector	1,296 Watt
Max. stagnation temperature	approx. 91°C

#### Good Reasons to Use SolarVenti®

- Simple and fast assembly
- Easy integration into a ventilation system already in place
- Lowers energy consumption
- Protects buildings and inventory by dehumidifying
- Short amortization period
- Especially suitable for commercial and industrial buildings

#### Economic Efficiency

Dehumidifying and heating buildings can result in high cost factor. A SolarVenti® Professional System is affordable and significantly reduces energy needs. A very short amortization period makes the system especially appealing in the commercial sector. Government subsidies (through „BAFA“, German Federal Office of Economics and Export Control) are available for up to 180 Euros per m<sup>2</sup> collector surface.

#### Size and Wiring

One SolarVenti® Professional measures approx. 2m x 1m and, due to its structural shape, has an absorbent surface of 2.38m<sup>2</sup> for a collector surface of 1.98m<sup>2</sup>. Almost any desired system surface can be created by interconnecting up to 10 Professional Modules in a row, and applying parallel boarding to this row.

#### Air Quantities

One SolarVenti® Professional is equipped to handle air volume flow of 300m<sup>3</sup> per hour. Therefore, a row of 10 modules can handle an hourly flow of up to 3.000m<sup>3</sup>. With parallel boarding rows the electrical flow can be increased as needed, and can be adapted to any building size or ventilation system.

#### Heating Temperature

The Professional Collector reaches a stagnation temperature of up to 91°C. The maximum output is 1,296 Watts, i.e. 648 Watt per m<sup>2</sup> of collector surface.

#### Certificates

We use various tests to ensure quality and returns. These essentially consist of:

- Fraunhofer test report
- Solar Keymark Certificate
- DIN („German Industrial Standard“) approved
- BAFA certified
- DTU approved

#### Mounting Types

SolarVenti® Professional Models are quite flexible, and can be mounted either onto a building or onto a surface.

Available mounting systems are as follows:

- Flat or sloped roof systems
- Wall mounting system 90° (direct wall mounting)
- Bracket mounting system (at an angle to the wall)

# Mounting Options and Terms:



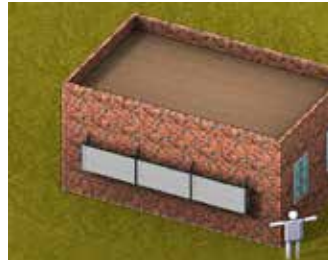
**Flat roof**

One system for all rows



**Sloped roof**

One system for all rows



**90° wall, first row 90° wall, additional row**

System wall - 90° difference between the first row and an additional row.



**60° wall**

One system for all rows

# Base Module and Extension Module:



**Base Module**

incl. mounting rack  
2x connectors D = 200mm for ventilation pipe  
1x blind cover at the end of a row

**Extension Module**

incl. mounting rack design note:  
There can be a max. of 10 switchable modules (1x base module and 9x extension module) in one row

## SolarVenti® Professional Base Module



Collector surface 2m<sup>2</sup>, absorbent surface 2.5m<sup>2</sup>, weight approx. 7kg,  
dimensions [mm] 1,974 x 1,004 x 250, volume flow up to 300m<sup>3</sup>/h per module

		Order number	Price in CHF
<b>Flat roof</b>	incl. 1x mounting rack for a flat but inclined roof or flat roof incl. 2x connectors 200mm and 1x blind cover 200mm	107000-B-FD	955.10
<b>Sloped roof</b>	incl. 1x mounting rack for a sloped roof incl. 2x connectors 200mm and 1x blind cover 200mm	107000-B-SD	955.10
<b>90° Wall</b>	1 <sup>st</sup> row: incl. 1x mounting rack for a wall mount 90° (direct) incl. 2x connectors 200mm and 1x blind cover 200mm	107000-B-W90	999.20
	from 2 on. Row: incl. 1x mounting rack for a wall mount 90° (direct) incl. 2x connectors 200mm and 1x blind cover 200mm	107000-B-W90ZR	860.60
<b>60° Wall</b>	incl. 1x mounting rack for a wall mount 60° (inclined) incl. 2x connectors 200mm and 1x blind cover 200mm	107000-B-W60	1.018.10

## SolarVenti® Professional Extension Module



Collector surface 2m<sup>2</sup>, absorbent surface 2.5m<sup>2</sup>, weight approx. 7kg,  
dimensions [mm] 1,974 x 1,004 x 250, volume flow up to 300m<sup>3</sup>/h per module

		Order number	Price in CHF
<b>Flat roof</b>	incl. 1x mounting rack for a flat but inclined roof or flat roof	107000-E-FD	705.60
<b>Sloped roof</b>	incl. 1x mounting rack for sloped roof	107000-E-SD	705.60
<b>90° Wall</b>	1. Row: incl. 1x mounting rack for wall mount 90° (direct)	107000-E-W90	869.40
	from 2 on. Row: incl. 1x mounting rack for wall mount 90° (direct) from	107000-E-W90ZR	730.80
<b>60° Wall</b>	incl. 1x mounting rack for wall mount 60° (inclined)	107000-E-W60	888.30

# SolarVenti® Professional Modular Air Collector System

Control Technology



Temperature difference controller AIR TDC

Order number

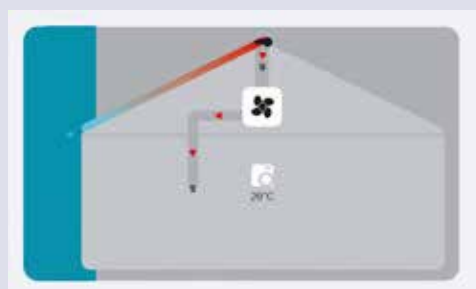
Price in CHF

**Temperature difference controller AIR TDC  
for AC and EC Fans**

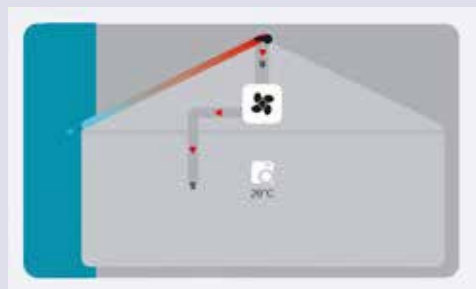
107000-E-FD

**297.40**

Probe inputs	<b>3</b>
Relay outputs 230VAC	<b>2</b>
Output 0..10V or PWM signal for Speed control of an ECM ventilator	<b>1</b>
LEDs red/green status indication	<b>yes</b>
Simple heat measurement	<b>yes</b>
Ventilation valve function system	<b>yes</b>
Battery-buffered real-time clock RTC	<b>yes</b>
Night cooling	<b>yes</b>
Start-up assistance	<b>yes</b>
Fan guard	
Data storage incl. statistics and graphical evaluation	<b>yes</b>
Error memory and analysis incl. date and time	<b>yes</b>
Menu blocker	<b>yes</b>



Standard air collector



air collector system incl. ventilation valve

Temperature difference controller AIR TDC temperature difference controller AIR TDC set incl. 3x temperature sensor

**AIR TDC set incl. room temperature sensor RC20, collector sensor TTS2 and exterior sensor TA52**

107021-S1

**410.80**



Room sensor RC20, PT 1000, incl. casing

**AIR TDC set incl. room temperature sensor RC20, collector sensor TTS2 and exterior sensor TA52**

107030

**54.20**



Collector sensor TTS2, PT 1000, silicone cable 2m in length

**Temperature-resistant up to 180°C, UV-resistant, immersion sensor design**

107031

**21.40**



# SolarVenti® Professional Modular Air Collector System

Control Technology



Exterior sensor TA52, PT 1000, incl. casing

107032

47.90



Immersion pocket TH 45, length 45mm, 150°C

107036-045

15.10

Immersion pocket TH 200, length 200mm, 150°C

107036-200

29.00



External switching relay with changeover contact, 10A

Inside the protective casing, wherever a switch is to occur via zero-potential or where the controller switching capacity is insufficient, use the 230V AC output controller instead.

107040

68.00

Coil driving voltage	230VAC
Maximum switching voltage	250VAC
Switching contact	1 changeover contact
Maximum switching current	10A for AC1
Casing guard type	IP54



External switching relay with changeover contact, 6A

Use inside the protective casing, wherever a switch is to occur via zero-potential instead of a 0-10V controller output.

107041

44.10

Coil driving voltage	9-12VDC
Maximum switching voltage	250VAC
Switching contact	1 changeover contact
Maximum switching current	6A at AC1
Casing guard type	IP54

# SolarVenti® Professional Modular Air Collector System

## Control Technology



External switching relay incl. 4x turnkey, 24A

Order number

Price in CHF

**Use inside the protective casing wherever the controller switching capacity is insufficient or a multipolar switch is required.**

107042

**98.30**

Coil driving voltage	<b>230VAC</b>
Maximum switching voltage	<b>400VAC</b>
Switching contact	<b>4 turnkeys</b>
Maximum switching current	<b>24A for AC1</b>
Casing guard type	<b>IP30</b>



Temperature difference controller AIR TDC temperature difference controller AIR TDC set incl. 3x temperature sensor

**Voltage spike protection for collector sensors in the junction box, dimensions 90 x 35 x 38mm**

107045

**22.70**

Pipe ventilation devices with EC motor

**Pipe radial fan with EC motor, 600m<sup>3</sup>/h at 100Pa, DN 160mm, type: LINDAB CK 160B EC**

107011-160

**500.20**

**Pipe radial fan with EC motor, 950m<sup>3</sup>/h at 100Pa, DN 200mm, type: LINDAB CK 200B EC**

107011-200

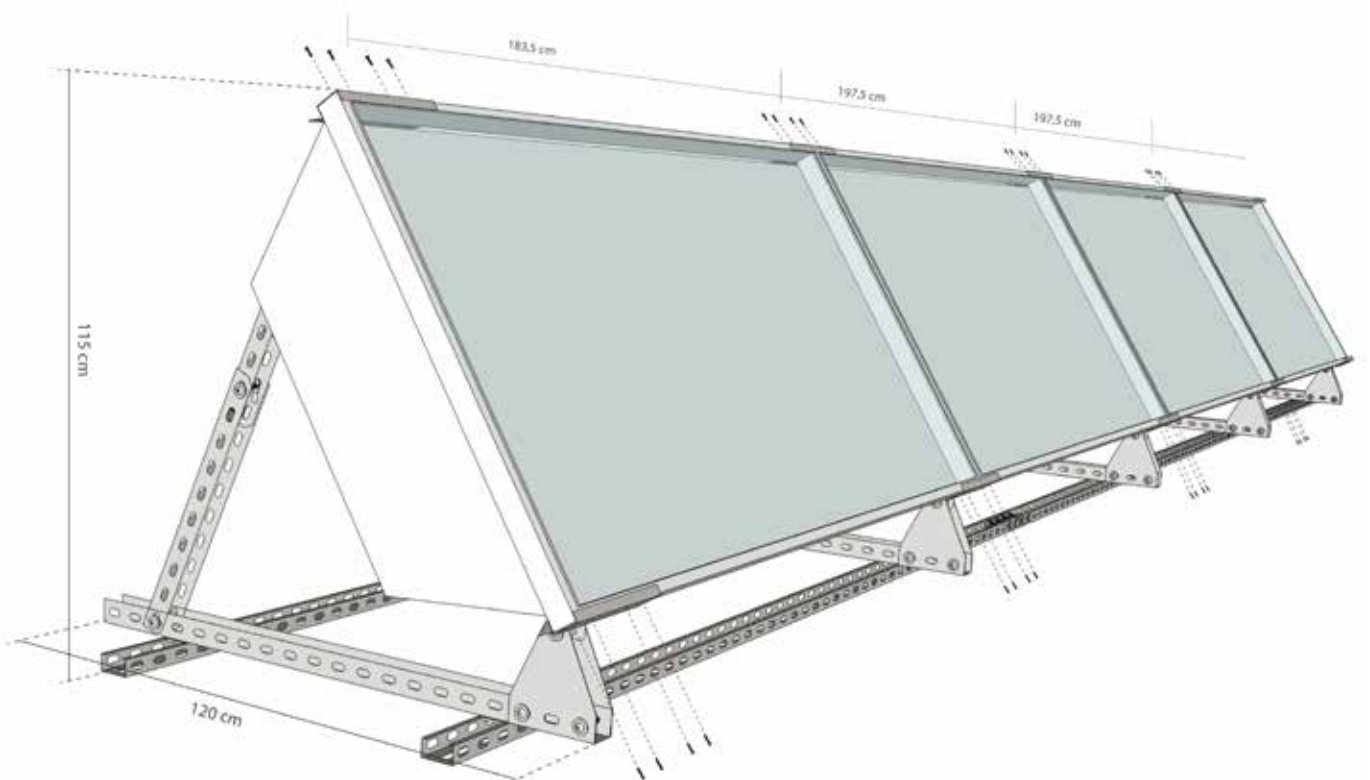
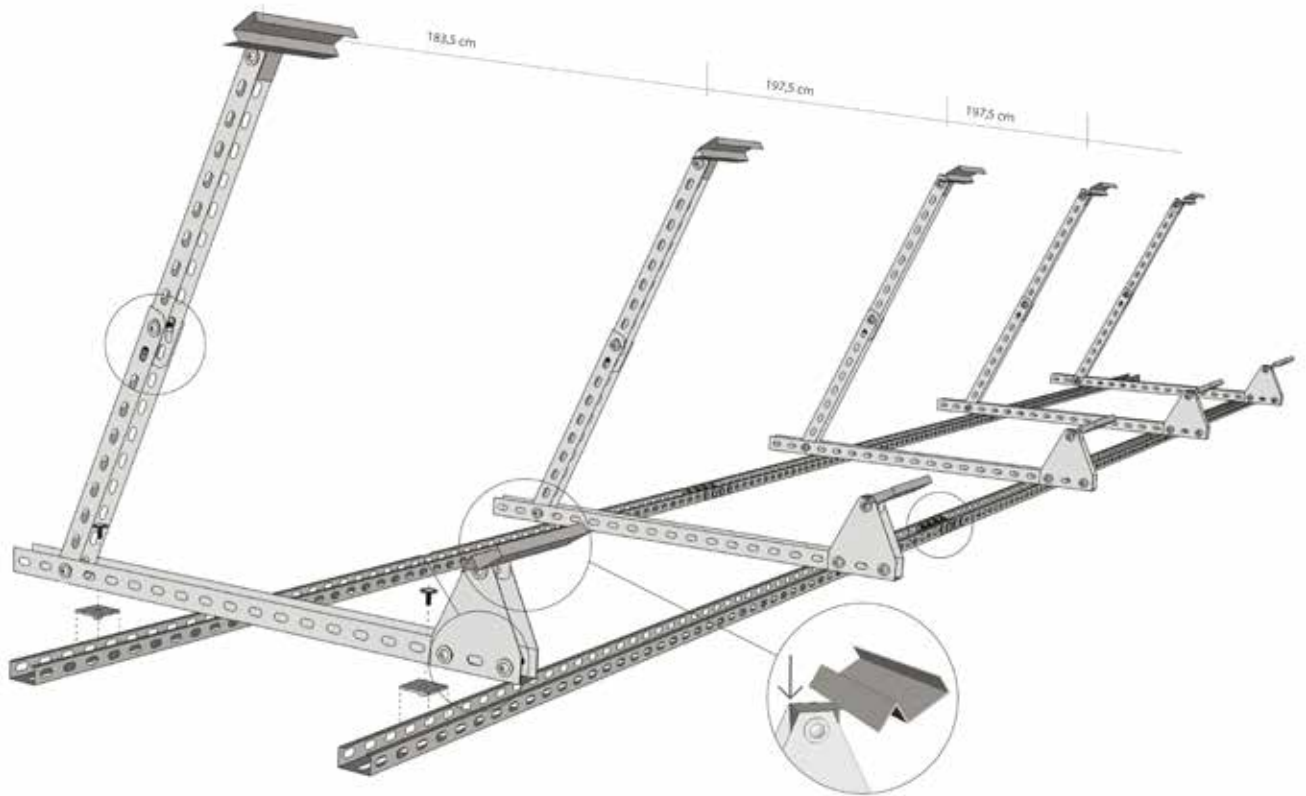
**592.20**

**Pipe radial fan with EC motor, 1200m<sup>3</sup>/h at 100Pa, DN 315mm, type: LINDAB CK 315B EC**

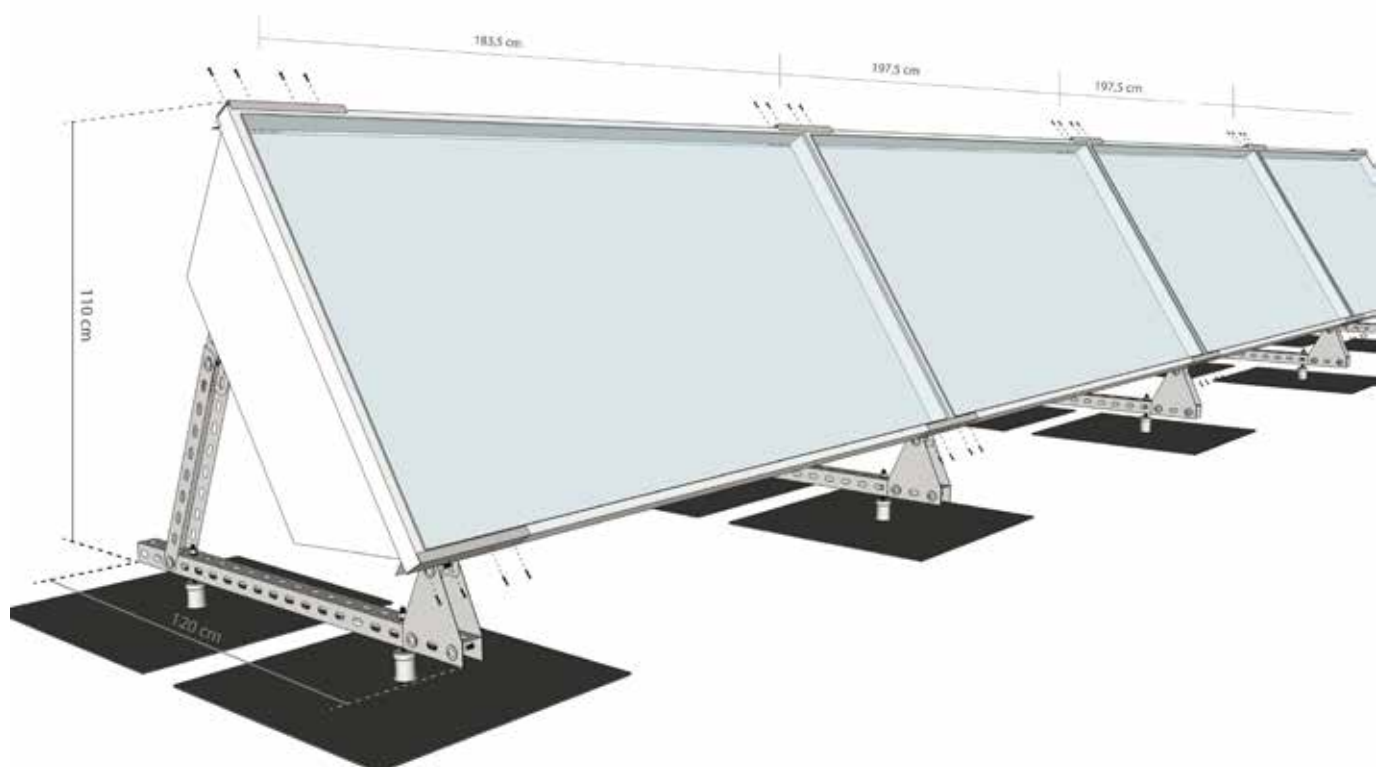
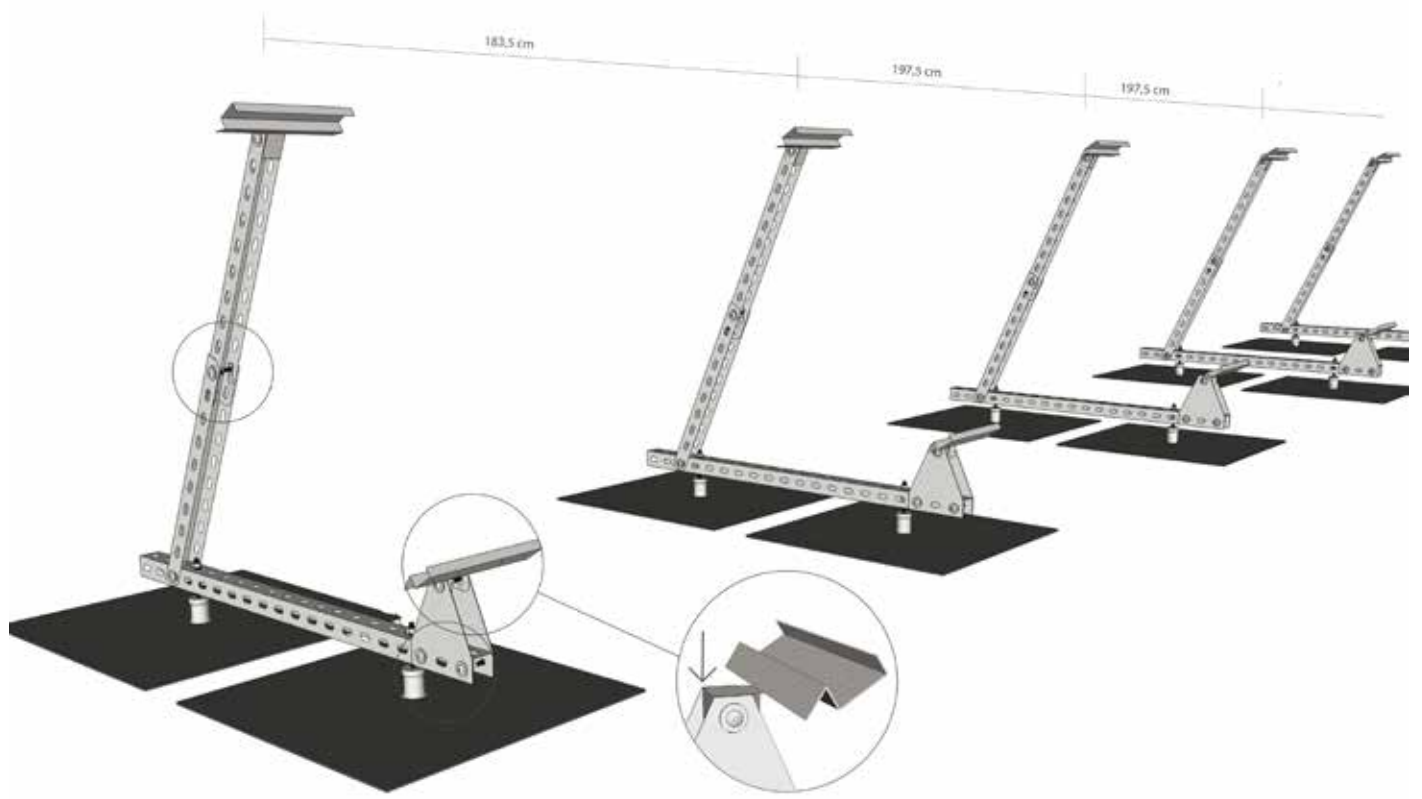
107011-315

**851.80**

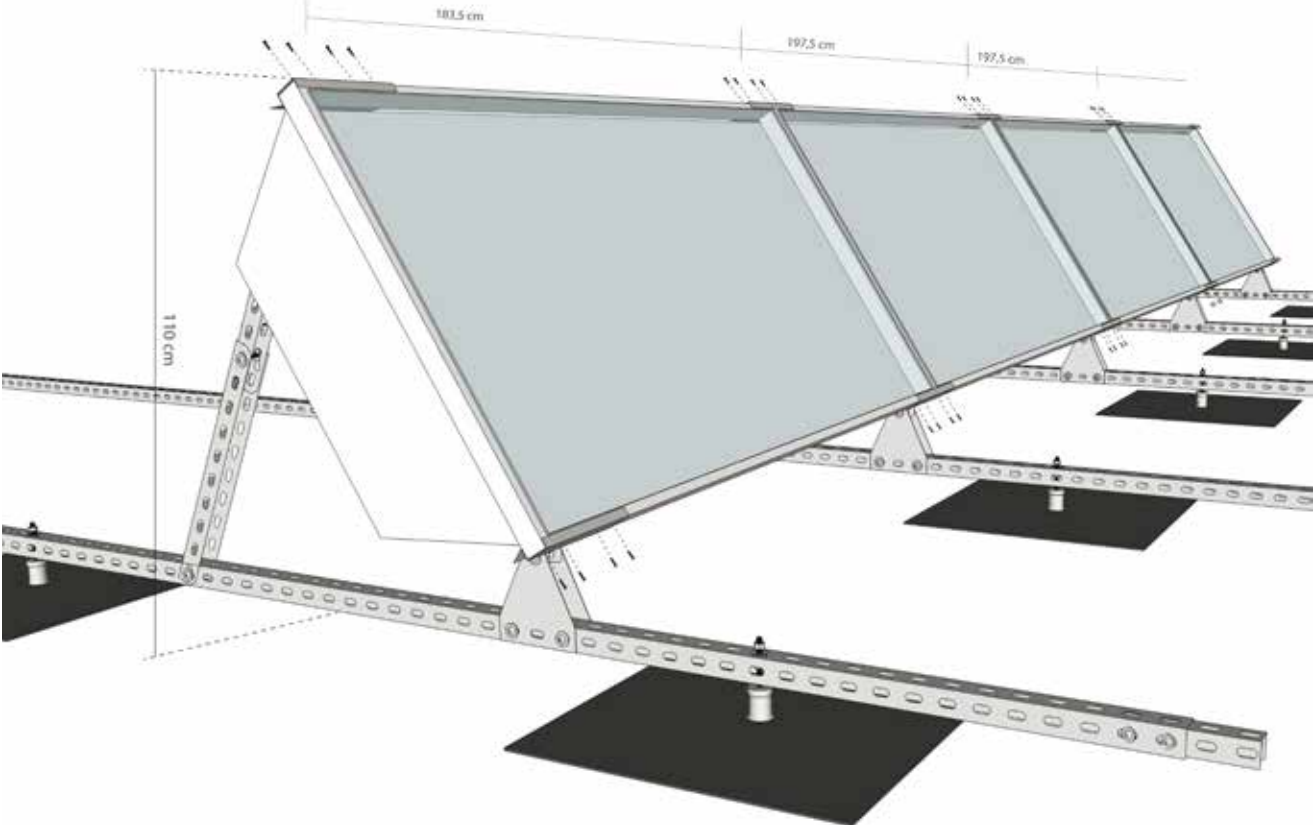
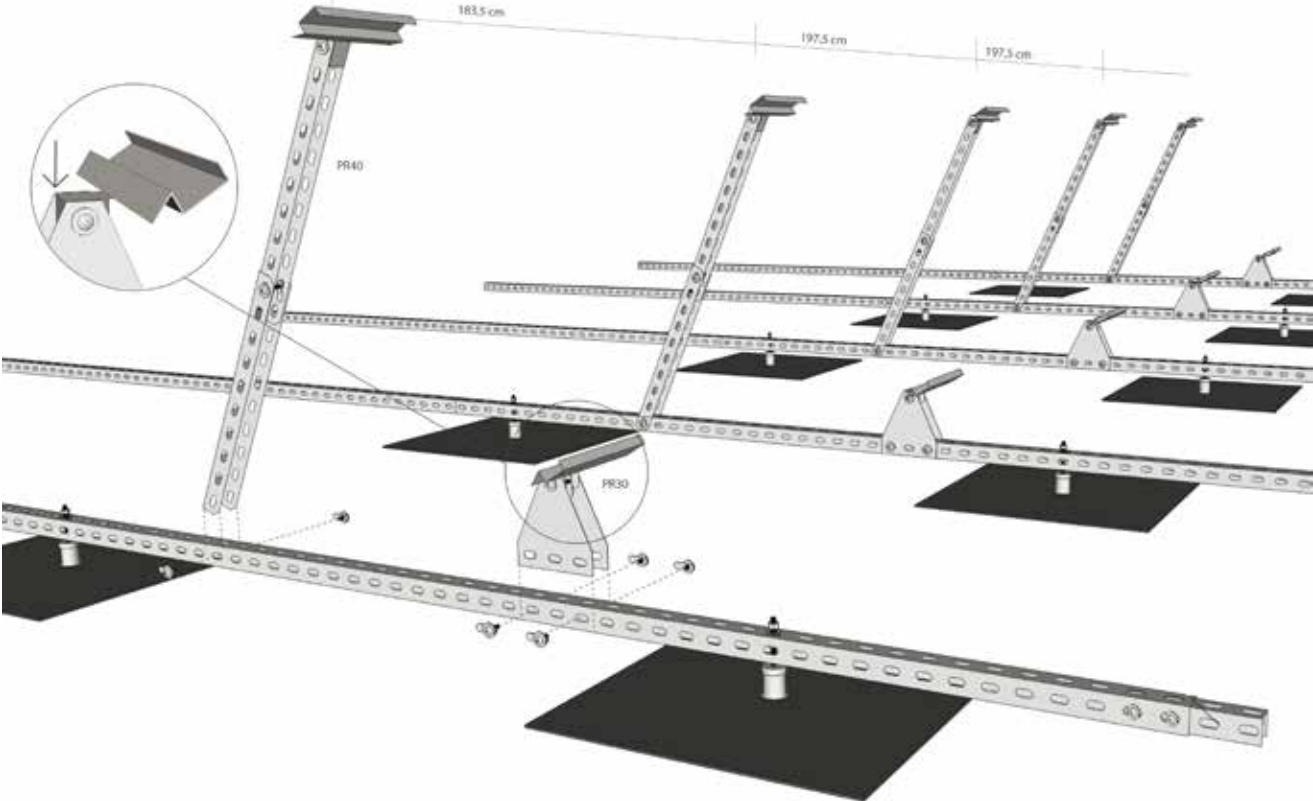
# SolarVenti® Professional PR 10



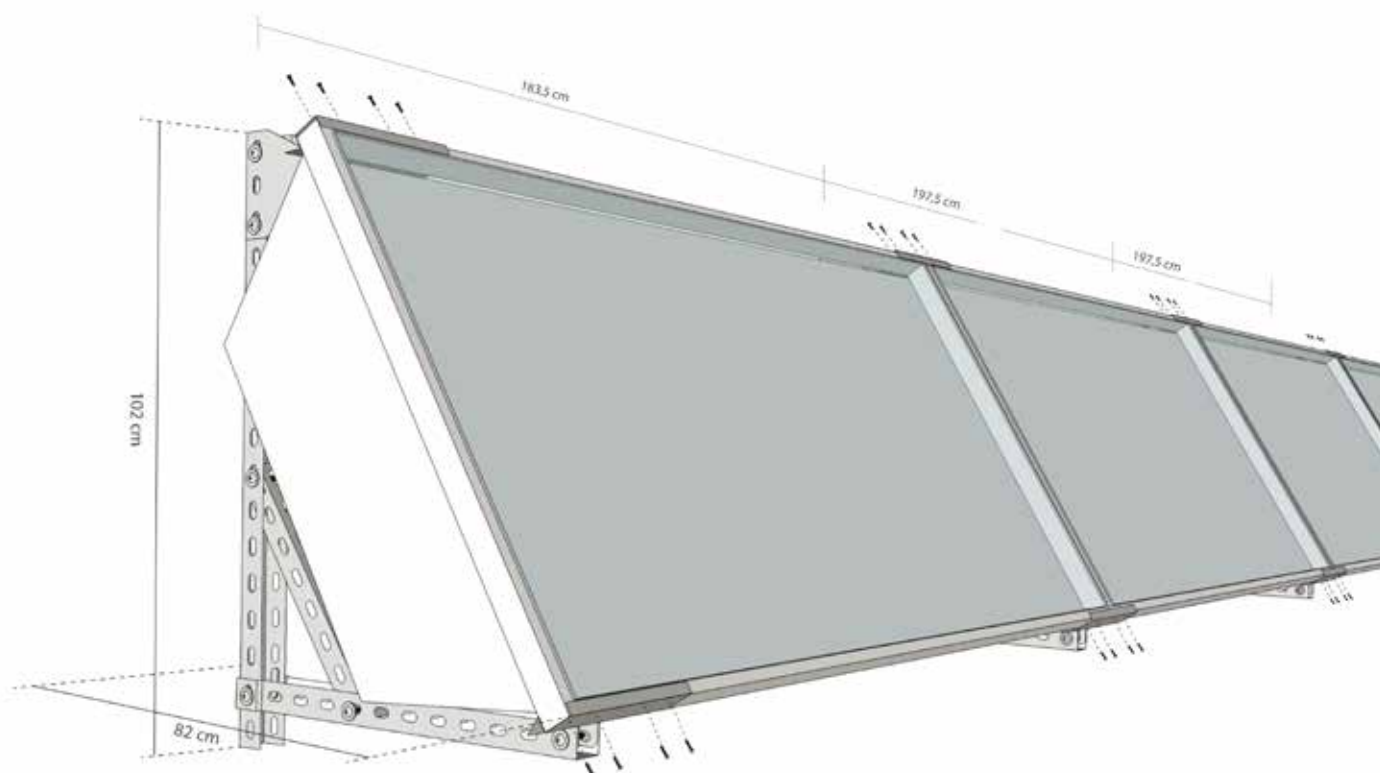
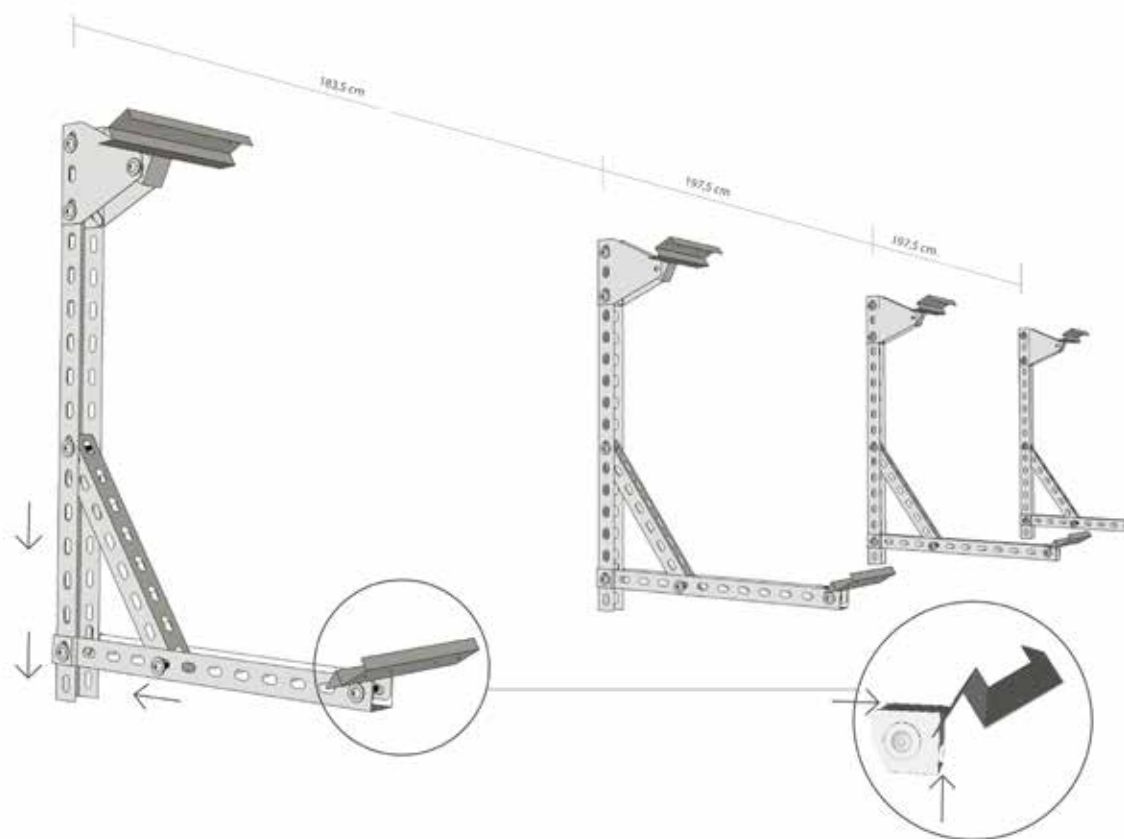
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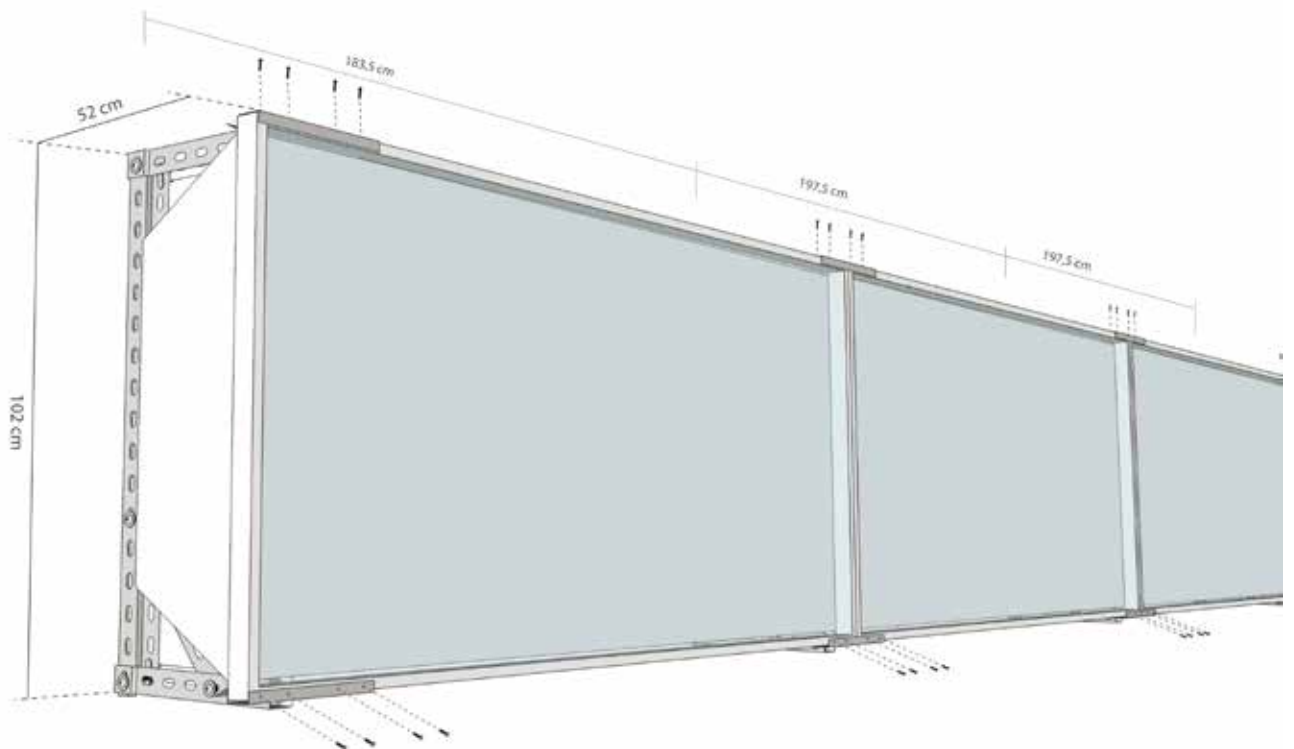
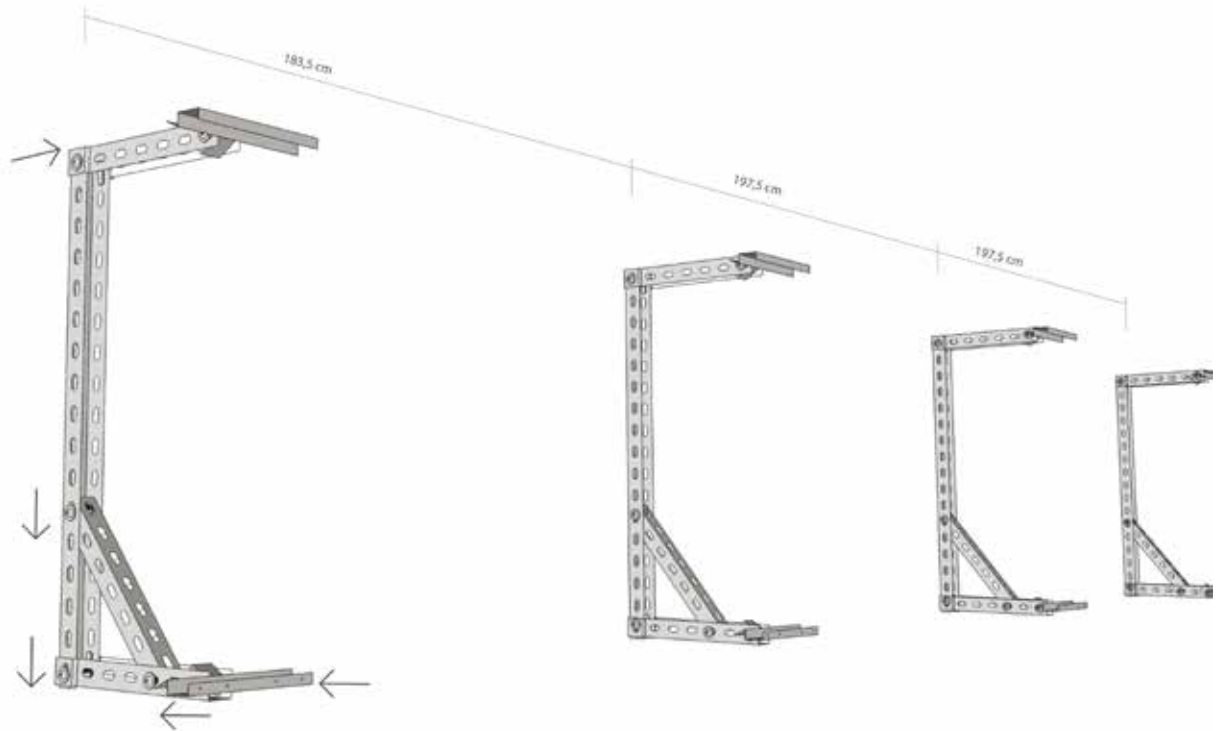
# SolarVenti® Professional PR 30 PR40



# SolarVenti® Professional PW 60




# SolarVenti® Professional PW 90



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**SIMEX**   
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