Conergy SolarSimplex

The Conergy SolarSimplex was developed for simple, flexible and professional installation on flat roofs. The system consists of a plastic tub, two aluminium support rails and all the necessary screws. With a weight of around 4 kg, the stackable Conergy SolarSimplex is easy to carry onto any roof. Installation merely involves packing the tub with ballast, e.g. gravel or paving stones, and attaching the support rails and modules.

Flexible application

The Conergy SolarSimplex is primarily designed for gravel-covered flat roofs. However, it can also be used with almost all types of conventional rough roof cladding[1].

Quick installation

All components are pre-assembled according to the chosen photovoltaic module type. Their light weight makes for simple, low-cost transportation to the roof. Integrated channels for cable routing further simplify installation.

Variable arrangement

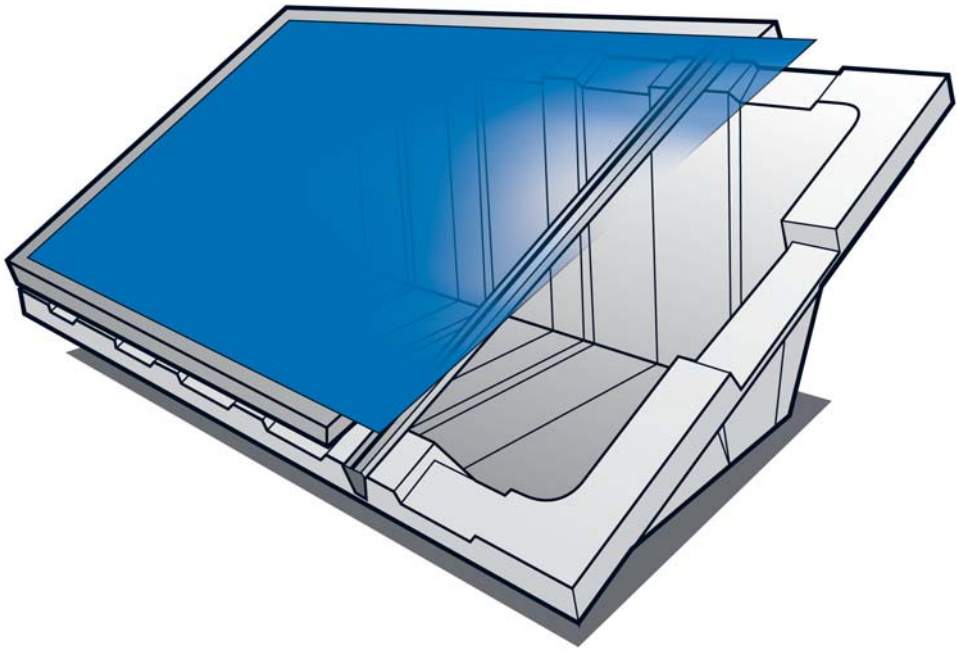
The solar modules are placed individually, allowing the most diverse arrangement of modules. As a result, SolarSimplex ensures optimal adaptability to the given roof surface.

High level of module compatibility

The Conergy SolarSimplex allows easy installation of almost all conventional framed photovoltaic modules on flat roofs. An extension set is available for larger modules.

Optimised design

The space between the solar module and the Conergy SolarSimplex provides optimum ventilation. At the same time, support rails provide optimum load transmission to the tub.



[1] For detailed information, please contact us before you commence planning.

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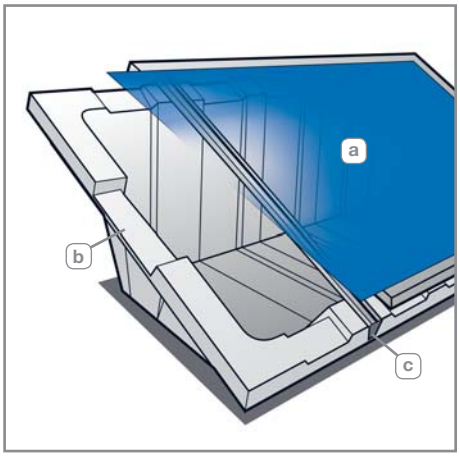
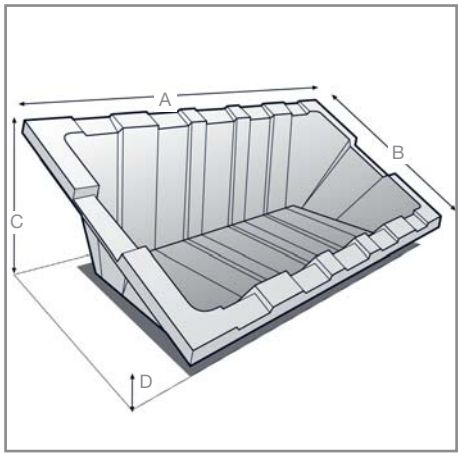
Overview:

- a Solar module
- b Plastic tub
- c Support rail



Oblique view



For dimensions, see table

	Conergy SolarSimplex
Installation site	Flat roof
Roof cladding	Suitable for almost all types of conventional rough roof cladding[1]
Tilt angle	25°
Roof load	Subject to approval by structural engineer
Height of building	Depends on wind zone and terrain category[1]
Solar module	Framed
Module arrangement	Individual (one module per frame unit)

	Conergy SolarSimplex
Module orientation	Crossways
Size of the module array	Any size possible
Position of the module array	Any position possible[2]
plastic tray, plastic trough	100 % chlorine-free, recycled polyethylene (HDPE)
Support rails	Extruded aluminium (ENAW 6060/6063)
Small parts	Stainless steel (V2A)
Weight	4–5 kg

	Dimensions (in mm)[3]					Distance between holes in the module frame (in mm)		
						none Extension set		and
Model	**A**	**B**	**C**	**D**	**required ballast[4]**	**min**	**max**	**max**
SolarSimplex 2.1	1,350	730	440	100	59 kg	591	711	781
SolarSimplex 2.2	1,440	670	390	100	55 kg	531	651	721
SolarSimplex 2.3	1,250	860	480	90	60 kg	721	841	911
SolarSimplex 4.1	1,600	800	450	85	73 kg	661	781	851
SolarSimplex 4.2	1,200	1,050	550	80	68 kg	895	1,015	1,085
SolarSimplex 6.2	1,680	1,050	550	80	98 kg	895	1,015	1,085

1 For detailed information, please contact us before you commence planning.
2 Please take into account the increased wind load when installing at the edges and corners of roofs. Details based on wind load zones 1 and 2, terrain category III: suburban, industrial or commercial areas, forests; building height 12 m, module position centre of roof. For detailed information, please contact us before you commence planning.
3 The module area should protrude as little as possible at the sides. A maximum of 12 cm on each side is permissible.
4 Other values may be required depending on location, building height and roof condition (details based on building height of 12 m outside the boundary area and wind load zone 1 and 2/terrain category III. For other information contact a local structural engineer.

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