

STANDARD PRODUCT
CUSTOM PRODUCT
PROTOTYPE

CONSOLE

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SYSTEM DESCRIPTION

The modular ConSoles are widely applicable as a support structure for solar panels on flat roofs. The ConSole is produced from 100% recycled chlorine free polyethylene, has a long lifetime and requires no maintenance. Because of its light weight and its functional design the installation time for solar panels on flat roofs is limited to a minimum. Most common solar modules will fit on one of the ConSole types.

The ConSole is applicable both in small scale private projects and in large scale projects on commercial buildings. In order to resist to wind load, the ConSole has to be weighted with tiles or gravel. The amount of ballast depends on the height of the building and its location.



APPLICATION FIELD

Building type	flat roofs
Building elements	flat roofs element made of plastic
Mounting technology	module fixed with bolts and lock nuts
PV Module	Any kind of module technology with amorphous, poly-or monocrystalline cells
	size of app. 730 x 1350 mm for the ConSole 2.1
	size of app. 600 x 1250 mm for the ConSole 3.1

AT DEMOSITE

PV Area	12 m ²
1. PV Module	RSM 95, Shell Solar Energy
Power, voltage	95 W, 33 V (standard test conditions)
Size	1330 x 710 mm
Connection	2 x 3 modules in series
2. PV Module	BP585, BP Solar
Power, voltage	85 W, 17 V (standard test conditions)
Size	1200 x 530 mm
Connection	6 modules in series

CONSOLE

Ecofys is a research and consultancy office on renewable energy and energy savings. As a specialist in solar energy, Ecofys has been involved in many photovoltaic projects in the built environment, in all stages of the project: initiative, design, realisation and use.

Based on this vast experience, Ecofys is developing innovative products for the integration of solar energy in buildings.

SYSTEM TECHNOLOGY

The ConSole is a slanting frame to fit a single module. It is easily installed on a flat roof and can subsequently be filled with ballast such as gravel or tiles.

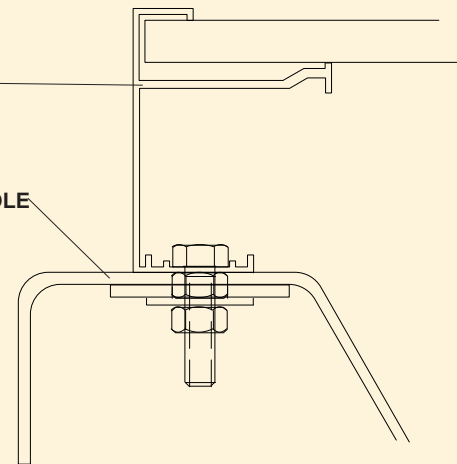
The photovoltaic module is screwed onto the edge of the plastic support with the fasteners which are supplied with the models.

The ConSole itself weighs less than 5 kilograms and can therefore be easily moved by one person. The ConSoles are stackable and, as a result, do not require much space during transport or storage.

The cable work can be fed through an opening in the side walls. When more are used, the cable work can be laid in recessed channels in the side walls. An additional cable duct will not be needed, the ConSole itself serves as a cable duct.

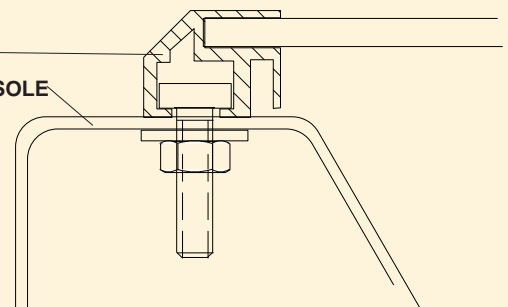
FRAME OF PV MODULE

PLASTIC WALL OF THE CONSOLE



FRAME OF PV MODULE

PLASTIC WALL OF THE CONSOLE



RECOMMENDED FIXING METHODS