



		<b>STANDARD PRODUCT</b>
		CUSTOM PRODUCT
		PROTOTYPE

## SOLBAC

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### SYSTEM DESCRIPTION

The SOLBAC system stands out for great flexibility.

SOLBAC units are made of asbestos-free fibre cement and are available in three different sizes to accommodate panels of 50 to 150 Wp; planners can easily adapt their systems to the structure of the roof and work around obstacles such as chimneys, air vents, superstructures, etc..

The SOLBAC system uses material already available on the roof as ballast; it acts as a kind of tank to accommodate the gravel used to cover the flat roof, which means that there is no need for additional load or for a crane to lift it onto the roof.



### APPLICATION FIELD

Building type	Flat roof
Building elements	Flat roof element
Mounting technology	Screwed -or- glued and screwed
PV Module	Any kind of standard modules width from 400 to 600mm

### AT DEMOSITE

PV Area	7.6 m <sup>2</sup>
PV Module	Siemens Solar M75
Power, voltage	900 W, 102 V (standard test conditions)
Size	1200 x 527 mm
Connection	2 x 6 modules in series

### SOLBAC

This flat roof integration system was developed by the Solar Energy and Building Physics Laboratory (LESO-PB) of the Swiss Federal Institute of Technology (EPFL) in Lausanne. The Swiss Federal Office of Energy (SFOE/BFE/OFEN) financed research.

### SYSTEM TECHNOLOGY

SOLBAC elements are lightweight and easy to handle, and the system permits easy maintenance and retrofitting of the roof.

Several mounting options exist, adapted to different panel types. Aluminium-framed modules, for example, are screwed (with self-cutting screws) to stainless steel sections that are bolted onto the fibre-cement.

The stainless steel sections have two more functions: they link the SOLBAC elements and create an equipotential earthing line.

