

International Green Roof Association Global Networking for Green Roofs



Project Data

Project:	Primary and Secondary School Unterensingen
Client:	-
Location (City, Country):	Unterensingen, Gemany
Year of Construction:	2002 Refurbishment
Roof Size:	1,400 sqm
Building Type:	Public school
Green Roof Type:	Extensive with solar panels
Vegetation:	Sedum
Architect/Designer:	Ulrich Kahl, Unterensingen
Contractor:	Firma Ruoff, Aichtal

“Primary and Secondary School Unterensingen”

Within the context of the necessary roof- and facade renovation which was scheduled for summer 2002, the main roof of the Unterensingen school building was originally planned to be provided just with an extensive green roof. The idea to use the roof for the creation of a solar plant which is run jointly by a group of people came up late. The aim was to avoid roof penetrations. In order to have possible load of up to 150 kg/sqm on the roof area, each support element of the solar equipment was fixed to a photovoltaic panel support board, size 1 x 2 m. Around the heightened panels, there is a good circulation of air, which increases their degree of effectiveness.

The boards themselves are held in place by a substrate filling of 100 mm depth. The mineral bulk material on the basis of clay tile chippings, provides the necessary ballast on the solar panel support boards.

