



# WERNER FARM

Allschwill, Canton Basel(CH)

## Building Details

CONTACTS	Name	Website (or e-mail)
Owner	Hans Werner	
Architect	-	-
Energy Consultant	TRITEC AG Schweiz	<a href="http://www.tritec-energy.com">www.tritec-energy.com</a>
PV Installer	TRITEC AG Schweiz	<a href="http://www.tritec-energy.com">www.tritec-energy.com</a>

## BUILDING

Completion year	2011 Building	2011 Plant		
Category	<b>New</b>	Renovation	Enlargement	Other
Typology	Residential	Administration	Industrial	Sport
	<b>Agricultural</b>	Urban	Historical	Other

**Building Energy Performance** kWh/m<sup>2</sup>y -

## Description

In the agricultural context of Allschwill, in the canton of Basel, the Tritec Schweiz AG, was responsible for design and installation of this PV systems on the agricultural buildings owned by Werner Farm. The PV plant was installed on the sloped roof through the TRI-ROOF mounting system, in which the modules replace the final roofing layer. The system allows that majority of the rainwater flows above the PV modules and the remaining is collected and drained in profiles specifically developed to collect water, so ensuring the impermeability of the roof. Also considering another part of the building covered with A BAPV system, a total of 512 modules were installed with a peak power of 110.08 kWp, able to produce a total annual energy 140,576 kWh.

**Acknowledgments** -



SOURCE: [www.tritec-energy.com](http://www.tritec-energy.com)

## BiPV Details

### LOCATION OF PLANT

<b>Roof</b>	Flat roof	Sloped	Curved	
<b>Façade</b>	Cladding	Balcony	Greenhouse	Curved
<b>Glass</b>	Façade	Roof	Solar shading	Canopy
<b>Orientation</b>	South	West	East	North
<b>BiPV Constructive system</b>	In-roof Solar Tiles (PV modules)			

### ARCHITECTURAL EVALUATION

<b>Color</b>	Black
<b>Transparency</b>	opaque
<b>Frame</b>	black anodized frame

### COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION			

### SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
<b>PV Module</b>	<b>Cells</b>	54 cells multi-crystalline (156x156mm)	
	<b>Module</b>	KYOCERA KD215GH-2PU	
<b>Power</b>	<b>kWp</b>	110.08	
<b>Size</b>	<b>m<sup>2</sup></b>	-	
<b>Energy production</b>	<b>kWh/year</b>	104576	
<b>Cost</b>	<b>€/m<sup>2</sup></b>	-	