



Reto Miloni ©

# Schmölzer House Pratteln (CH)

## Building Details

### CONTACTS

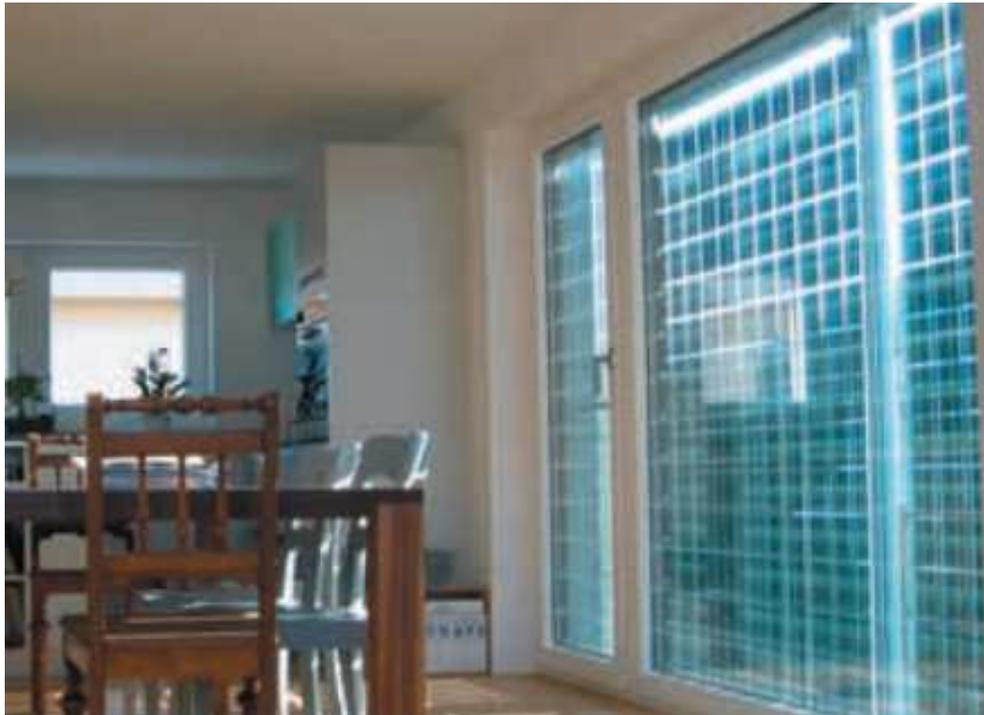
	Name	Website (or e-mail)
<b>Owner</b>	Private	
<b>Architect</b>	Reto Miloni	<a href="http://www.miloni.ch/">http://www.miloni.ch/</a>
<b>Energy Consultant</b>		
<b>PV Installer</b>		

### BUILDING

<b>Completion year</b>	2002 Building	2002 PV Plant		
<b>Category</b>	New	Renovation	Enlargement	Other
<b>Typology</b>	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other

### Description

The building is characterized by a very-low energy demand thanks to a passivhaus concept based on a performative envelope (both opaque and transparent), a mechanical ventilation system with heat recovery and the solar active devices both for domestic hot water as well as for electricity. PV systems, for an amount of 3,12 kW power peak, are placed onto the roof (16 modules), as a balcony (5 modules) and as moveable solar screens that are also used for aesthetics and privacy. The building structure is made of timberframe also using recycled material for claddings and other constructive component in the perspective of minimize the environmental impact in all over the life cycle. Solar systems (thermal and PV) are able to satisfy about a 50% of the whole energetic demand.



## BiPV Details

### LOCATION OF PLANT

<b>Roof</b>	Flat roof	Sloped	Curved	
<b>Façade</b>	Cladding	Balcony	Greenhouse	
<b>Glass</b>	Façade	Roof	Solar shading	Canopy
<b>Orientation</b>	South	West	East	North

### ARCHITECTURAL EVALUATION

<b>Color</b>	Blue
<b>Transparency</b>	Semitransparent
<b>Frame</b>	Frameless glass
<b>Acknowledgements</b>	Swiss Solar Prize 2011

### SPECIFICATION

<b>Photovoltaic</b>	Monocrystalline	Multicrystalline	Thin Film
<b>PV Module</b>	<b>Cells</b>	mc-Si	
	<b>Module</b>	Colt Group	
<b>Power</b>	<b>kWp</b>	3,12 (total peak power, roof+balcony+screens)	
<b>Size</b>	<b>m<sup>2</sup></b>		
<b>Energy production</b>	<b>kWh/year</b>	2 700 kWh	