



SOLARCHITECTURE
building solutions



Schneller Bader House



Address

Trinserstrasse 9a, 7015 Tamins, Switzerland



Location

46°49'45" N | 9°24'16" E



Altitude

660 MAMSL

With the support of



SWISSOLAR 

SUPSI

ETH zürich



Tradition and technology

The house, long and narrow, is positioned between a farm courtyard and an open field to form a landscape boundary. From the angle of approach, the appearance changes from double-storey to a single-storey structure. This single-family house impresses with a perfectly integrated south facing photovoltaic installation. Thanks to the choice of materials and colours, as well as the clean lines, this new building fits perfectly into the context of the village and the surrounding landscape. The design of the saddleback roof with photovoltaic modules and fibre-cement panels as roof cladding is reminiscent of office buildings in the village.



The saddleback roof conforms to the local building tradition.



The living room appears as a screened porch with a two-sided view.

Energy

Active solar surface	108 m ²	–
Active solar surface ratio	< 75%	–
Peak power	17 kWp	–
Building skin application	Solar tiles	Cold facade

Energy production

22,800
kWh

Self - consumption

100%

44% Energy surplus



Building characteristics

Building typology

Residential

Construction type

New

Year of construction

2016

Energy reference surface

220 m²

Energy index

16 kWh/m²a (heating and electricity)

Energy labelling

–



From the fields, the building looks like a barn. The large wooden sun-shades can be opened and closed.

BIPV module

Product

3SMegaSlate @II

Manufacturer

3S SOLAR PLUS AG

Cell technology

Mono-crystalline

Cell colour

Black

Dimensions

1300x875x6.5 mm

Power

190 Wp



Parties involved

Owner

Georgina Schneller and Sascha Bader

Architect

Bearth & Deplazes Architekten AG

Photovoltaic installer

Helion Solar AG

Carpenter

Gebr. Möhr AG

Photo

Ralph Feiner and Andreas Graber

Awards, recognitions & info.

Awards

Norman Foster Solar Award 2017

With the support of



SWISSOLAR 

SUPSI

ETH zürich