



# New Tracuit Hut

Zinal, Canton Valais(CH)

## Building Details

CONTACTS	Name	Website (or e-mail)
<b>Owner</b>	Swiss Alpin Club, section chaussy	<a href="http://www.cas-chaussy.ch">www.cas-chaussy.ch</a>
<b>Architect</b>	Savioz Fabrizzi Architectes	<a href="http://www.sf-ar.ch">www.sf-ar.ch</a>
<b>Energy Consultant</b>	Tecnoservice Engineering SA	<a href="http://www.tecnoservice.ch">www.tecnoservice.ch</a>
<b>PV Installer</b>	Acomet constructions métalliques; Solenergy installations solaires photovoltaïques	<a href="http://www.acomet.ch">www.acomet.ch</a> ; <a href="http://www.solenergy.ch">www.solenergy.ch</a>

## BUILDING

<b>Completion year</b>	2012-2013	Building	2012-2013	PV Plant
<b>Category</b>	<b>New</b>	Renovation	Enlargement	Other
<b>Typology</b>	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	<b>Other</b>
<b>Building Energy Performance</b>	<b>kWh/m<sup>2</sup>y</b>		Busy few week a years	

## Description

The Tracuit mountain hut, at the altitude of 3256 m in the hearth of Valaisan Alps, was built in a new position near the original hut of 1929, that was demolished at the end of the work only preserving the lower part of the walls as a memorial of one other time. The building is fit in the site's topography, in a superb position between a cliff and a glacier. The structural frame is made by wood. The wall and floor components, insulation and cladding, were prefabricated in the factory and transported by helicopter for on-site assembly. The south façade is glazed or covered with solar panels, making maximum use of solar radiation. The PV plant of 11.50 kWp, stand-alone, works together with a 1,000 Ah battery storage. The other facades have a stainless steel cladding reflecting the surrounding landscape. The compact shape of the building and the efficient wall insulation reduce heat losses. A ventilation system is used to significantly recover the amount of heat emitted by the building's occupants, and guarantee the renewal of air for a better comfort.

**Aknowledgments** Architizer A+Awards Finalist 2014



SOURCE: Thomas Jantscher

## 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 System</b>	Façade opaque cladding		

### ARCHITECTURAL EVALUATION

<b>Color</b>	Black
<b>Transparency</b>	opaque
<b>Frame</b>	Frameless

### COSTUMIZATION LANGUAGE AT COMPONENT SCALE

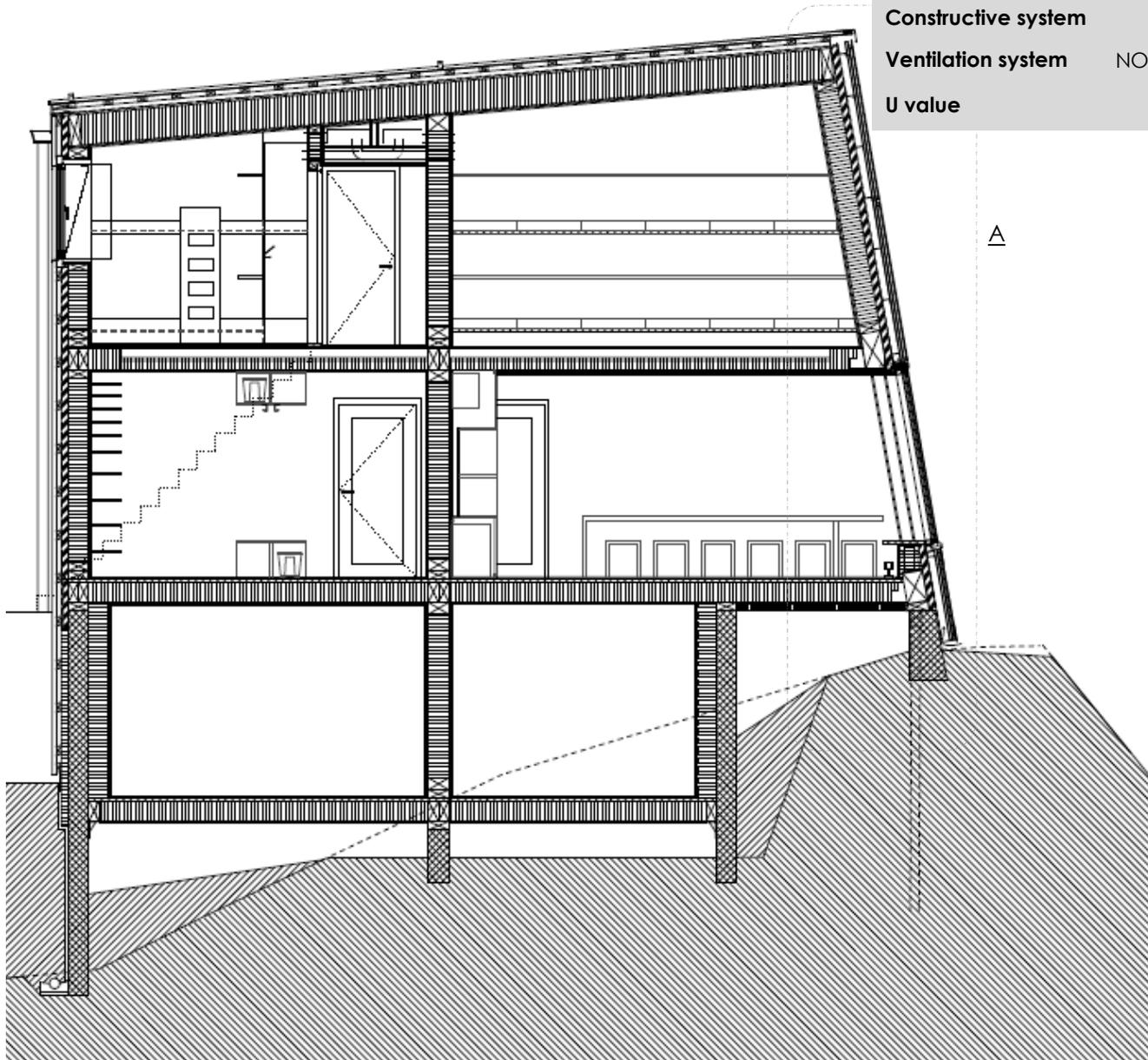
PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION			

### SPECIFICATION

<b>Photovoltaic</b>	Monocrystalline	Multicrystalline	Thin Film
<b>PV Module</b>	<b>Cells</b>	3 S	
	<b>Module</b>	Various	
<b>Power</b>	<b>kWp</b>	Various	
<b>Size</b>	<b>m<sup>2</sup></b>	89	
<b>Energy production</b>	<b>kWh/year</b>	13600	
<b>Cost</b>	<b>€/m<sup>2</sup></b>	-	

SOURCE: Savioz Fabrizzi Architectes

Transverse Constructive Section



## BiPV Details

### BUILDING SYSTEM INFORMATION

Transparency	OPAQUE	TRASPARENT	G Value
Constructive system	MASSIVE BUILDING		LIGHTWEIGHT
Ventilation system	NOT VENTILATED	MICROVENTILATED	NATURAL VENTILATED
U value			

