



Piz de Plaies San Martino in Badia, Bolzano (I)

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	Piz de Plaies S.A.S.	www.electroclara.com
Architect	Ing. Matteo Ruzza, Elektro Clara	m.ruzza@electroclara.com
Energy Consultant	Ertex Solar GmbH	www.ertex-solar.at
PV Installer	Elektro Clara S.A.S.	www.electroclara.com

BUILDING

Completion year	2009	Building	2009	Plant
Category	New	Renovation	Enlargement	Other
Typology	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other

Building Energy Performance **kWh/m²y**

Description

This is a tourist accommodation in Piz de Plaies at an altitude of 1622 m in the ski center of Pian de Corones. In 2010 this project won the first prize of "Solar Technology and project quality: Architectural PV integration" competition promoted by GSE e PABAAC. The architect managed to harmoniously and elegantly integrate semi-transparent trapezoidal PV laminates in a distinctive and original spiral geometry. The particular configuration of the hut required a great attention to details and specific construction solutions. The PV modules are supported by a timber load-bearing structure hiding the cable routes. The solar canopy consisting in tempered solar glasses with multicrystalline cells produces 9,000 kWh/y.

Acknowledgments 1° prize "Solar Technology and project quality: Architectural PV integration", by Energy Services Operator (GSE) and the Directorate General Directorate for Landscape, Fine Arts, Architecture and Contemporary Art (PABAAC) of the Heritage Ministry and Cultural Activities,



BiPV Details

LOCATION OF PLANT

Roof	Flat roof	Sloped	Curved	
Façade	Cladding	Balcony	Greenhouse	Curved
Glass	Façade	Roof	Solar shading	Canopy
Orientation	South	West	East	North
BiPV System	Glassed roof of canopy			

ARCHITECTURAL EVALUATION

Color	Black
Transparency	~ 35 %
Frame	Aluminium frames

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION	Trapezoidal form of modules		

SPECIFICATION

	Monocrystalline	Multicrystalline	Thin Film
Photovoltaic			
PV Module	Cells	-	
	Module	40 Ertex solar VSG 10/12 (1400x2500mm)	
Power	kWp	7.04	
Size	m²	-	
Energy production	kWh/year	9000	
Cost	€/m²	-	