



New Hall 3 of RP Technik Bönen (D)

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	RP Technik GmbH Profilsysteme	www.rp-technik.com
Architect	Planungsteam Krynówjowski & Nita	www.planungsteam-kn.de
Energy Consultant	RP Technik GmbH Profilsysteme	www.rp-technik.com
PV Installer	PEM GesmbH, Mauthausen	www.pem.com
BUILDING		
Completion year	2008 Building	2008 Plant
Category	New Renovation	Enlargement Other
Typology	Residential Administration	Industrial Sport
	Agricultural Urban	Historical Other
Building Energy Performance	kWh/m²y	-

Description

The new pavilion of RP Technik headquarter in Bönen, Germany, is characterized by structural glass facades integrating thin film PV. The constructive system with transoms and mullions is based on special profiles specially developed for PV integration in order to make invisible the cabling systems.

On the east façade, thin-film PV with different transparency factors is inserted in the insulated glass. The higher part and a central part of the façade integrates a completely opaque PV glass, whilst all the other part are characterized by semi-transparent glasses with horizontal PV bands. The lower part has a normal glazed façade. Along with PV plant on the roof, the total energy production supply the 30% of factory consumption.

Acknowledgments

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SOURCE: international.rp-technik.com



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	Trasparent Façade (curtain wall);		

ARCHITECTURAL EVALUATION

Color	Black
Transparency	45%
Frame	steel profile 60mm (Mounting system: RP-ISO-hermetic 60 N BiPV)

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION			

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	CIS Thin film	
	Module		(1260*2480*38 mm)
Power	kWp	8.4	
Size	m²	120	
Energy production	kWh/year	3460	
Cost	€/m²	-	