



Source: www.rp-technik.com; www.rewe.de

Rewe Green Building

Berlin-Rudow (D)

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	REWE Supermarket KGaA	www.rewe-group.com
Architect	Koch Architects, Düsseldorf	www.kocharchitekten.com
Energy Consultant	-	
PV Installer	RP Technik GmbH Profilsysteme	www.rp-technik.com
BUILDING		
Completion year	2009	Building Plant
Category	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Renovation <input type="checkbox"/> Enlargement <input type="checkbox"/> Other
Typology	<input type="checkbox"/> Residential <input type="checkbox"/> Administration <input type="checkbox"/> Industrial <input type="checkbox"/> Sport	<input type="checkbox"/> Agricultural <input type="checkbox"/> Urban <input type="checkbox"/> Historical <input checked="" type="checkbox"/> Other
Building Energy Performance	kWh/m ² y	-

Description

This building has been awarded by the German Sustainable Building Council (DGNB) as the first energy-efficient supermarket in the world since it has been conceived to consume 50% less energy than a standard building. Thanks to the combination of different service devices (ventilation, heating, refrigeration and conditioning) with a good insulation of the building envelope. The PV modules installed on the roof with a slope of 2°, together with the glazed modules installed on the canopy (70m length and 5.60m depth), cover 32% of the energy needs of the supermarket. RP Technik has designed a special solution of the mounting profiles that allow the continuity of the wiring cables.

Acknowledgments Gold label by German Sustainable Building Council (DGNB) 2009



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	Transparent Roof			

ARCHITECTURAL EVALUATION

Color	Black
Transparency	30 % (capopy) ; opaque (roof)
Frame	Metal substructure

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION	Mounting profiles with slot that allows the continuous wiring cables (RP 1808)		

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	-	
	Module	VSG/VSG-ISO (1500X1980mm) Ertex Solar (Canopy)	
Power	kWp	31 (canopy); 133 (total)	
Size	m²	2000 mq tot	
Energy production	kWh/year	-	
Cost	€/m²	-	