



SunTechnics Solartechnik GmbH

# Paul Horn Arena Tübingden(D)

## Building Details

### CONTACTS

#### Owner

City of Tübingen

[www.tuebingen.de](http://www.tuebingen.de)

#### Architect

Allman & Sattler & Wappner  
Architekten

[www.allmannsattlerwappner.de](http://www.allmannsattlerwappner.de)

#### Energy Consultant

TransSolar Energietechnik  
GmbH, Stuttgart

[www.transolar.com](http://www.transolar.com)

#### PV Installer

N/A

### BUILDING

#### Completion year

2004 Building

2004 PV Plant

#### Category

New

Renovation

Enlargement

Other

#### Typology

Residential

Administration

Industrial

Sport

Agricultural

Urban

Historical

Other

## Description

The multi-functional sports hall is characterized by four different facades that are an integral part of the building's concept. A modern climbing wall forms the north-western facade, facilities for streetball, skating and skateboarding are placed along the south-eastern exterior wall. The south-western wall is taken up by photovoltaic elements. PV wall, thanks to the special modules composed by green coloured crystallin cells onto a white background, fixed by a point fixing system, appears well integrate with the surrounding natural environment. The Paul Horn-Arena has been awarded with the Hugo - Häring - Prize in 2009.

## 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

### ARCHITECTURAL EVALUATION

<b>Color</b>	Emerald green cells, white background of module
<b>Transparency</b>	opaque
<b>Frame</b>	Frameless module with point fixings

<b>Acknowledgments</b>	German Steel Construction Award 2006, IOC/IAKS Award 2007, Design Award of the Wüstenrot Foundation 2008 for "energy-efficient architecture in Germany" Hugo - Häring - Prize in 2009
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### SPECIFICATION

<b>Photovoltaic</b>	Monocrystalline	Multicrystalline	Thin Film
<b>PV Module</b>	<b>Cells</b>	Sunways Emerald green solar cells	
	<b>Module</b>	GSS Gebäude-Solar-Systeme GmbH, custom made.	
<b>Power</b>	<b>kWp</b>	43.7	
<b>Size</b>	<b>m<sup>2</sup></b>	420	
<b>Energy production</b>	<b>kWh/year</b>	30 000	

