



**SOLARCHITECTURE**  
building solutions



# Solarsilo



## Address

Gundeldinger Feld, Dornacherstrasse 192, 4053 Basel, Switzerland



## Location

47°32'29" N | 7°35'35" E



## Altitude

280 MAMSL



# Innovating with colours

A cultural district has grown in the former “Gundeldinger Feld” site of the Sulzer & Burckhardt AG machine factory in Basel. This old industrial area is under heritage protection and the renovation required to match the style and colour scheme of the site. Roof and facades are covered with coloured PV modules. Every PV module is individually monitored and its efficiency is recorded to optimize the PV system and to study the effect of different colours on the performance. Some black monocrystalline modules on the roof function as reference for the electricity production monitoring.



The intention is to equip residential complexes, neighbourhoods and industrial areas without damaging the environment and the aesthetics of the site.



Side view of the building

## Energy

### Active Solar surface

82 m<sup>2</sup> (roof), 77 m<sup>2</sup> (facades)

### Active Solar surface ratio

>75% (roof), <50% (facades)

### Peak power

12.8 kWp (roof), 11.2 kWp (facades)

### Building skin

Solar tiles, cold facade

### Energy production

**16'400**

kWh

### Self-consumption

**100%**

Energy



# Building characteristics

## Building typology

Administrative

## Construction type

Retrofit

## Year of construction

1850, retrofit 2014

## Energy reference surface

673 m<sup>2</sup>

## Energy index

66 kWh/m<sup>2</sup>a (heating and electricity)

## Energy labelling

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PV facade

# BIPV module

## Product

Antec Module / Kromatix Solarglas (data sheet not available)

## Manufacturer

Swiss Inso, EPFL-PSE

## Cell technology

Mono-crystalline

## Cell colour

Black

## Dimensions

1588x808x40 mm (roof), customized (facades)

## Power

200 Wp (roof), 123 Wp (facades)

