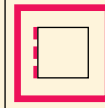


demosite

IEA PVPS TASK VII EXHIBITION CENTRE FOR PV INTEGRATION

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STANDARD PRODUCT



CUSTOM PRODUCT

PROTOTYPE

SCHWEIZER

ERNST SCHWEIZER AG

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CH - 8908 Hedingen

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SYSTEM DESCRIPTION

Ernst SCHWEIZER AG worked with B. Winkler Architects in Zurich to design a facade cladding with slightly tilted photovoltaic panels and a sill with stainless steel sections that reflects solar rays onto the photovoltaic modules and protects the row of windows below.

Behind the photovoltaic panels, ventilation through convection cools down the modules.



APPLICATION FIELD

Building type	Administrative building with a representative metal facade
Building elements	Photovoltaic breast-wall tilted at 70°, windows, blinds
Mounting technology	Screws and clip system
PV Module	Any kind of module technology of any size (depending on facade size)

AT DEMOSITE

PV Area	4,2 m ²
PV Module	Solution, monocrystalline cells from BP SOLAR, custom-sized
Power, voltage	163 W, 30 V (standard test conditions)
Size	1480 x 950 mm
Connection	3 modules in series

SCHWEIZER

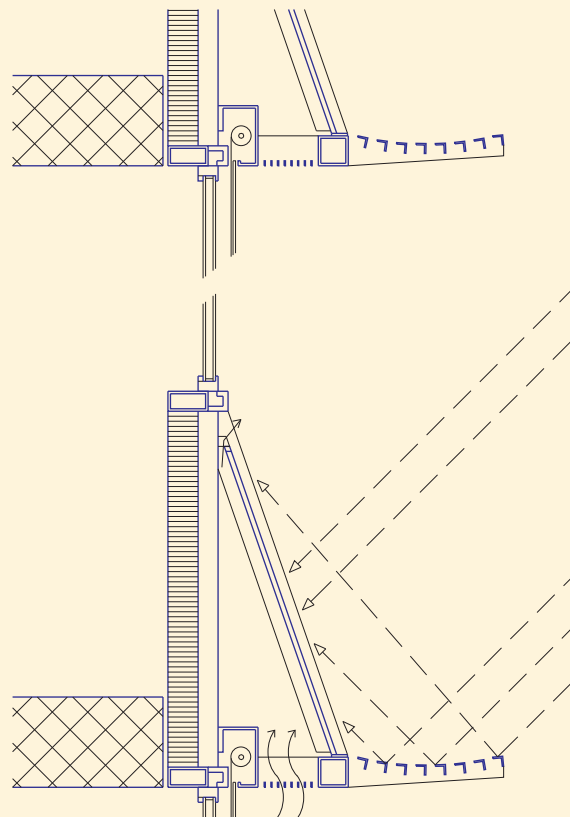
Ernst SCHWEIZER AG was the first company to invest in DEMOSITE. It is specialised in the construction of metal facades and have been interested in energy saving technology for several years now.

Numerous energy concepts carry its signature (transparent insulating wall, high quality integrated solar collectors, recycling window systems).

SYSTEM TECHNOLOGY

The construction of this facade does not present any major difficulties. The sub-structure consists of standard thermolacquered aluminium sections and flashings keep the photovoltaic panels in place.

The costs added to the facade construction by the use of photovoltaic cladding amounts to 180 Euro (300 Swiss Francs) per square meter (comparison with a conventional facade).



FACADE CROSS SECTION