

ARCHAEOLOGICAL MUSEUM

PV system Archaeological Museum, Herne, Germany

In large rooms where the glass front faces away from the sun, shed roofs ensure an even daylight distribution.

The sloping roof areas on the south side of the museum offer optimal conditions for photovoltaics. Furthermore, they reduce the building's summer heat input.

are made of double-glass. They attract attention solely by their size: 0.94 m width, 4 m length

Due to the modules' size and the roof mounting's extraordinary shape it was necessary to develop a tailor-made mounting



Even before the construction process of the museum began, these aspects had to be taken into account. Not only is PV technology an integrated element inside the museum, but is actually part of the building's design. As in most cases, the tailor-made modules

structure. *abakus* was the project management company and thus, developed, planned and realized the solutions in coordination with the museum

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We benefit from our long-standing practical experience with frameless double glass modules, particularly in these situations. These modules can be used in various ways, e.g. in the fields of cell arrangement, varied size, and as thermal insulation, heat protection, sound protection or fire prevention glass.

Furthermore, the modules' visual effects catch the eye. They can be integrated into a modern building as a glass panel or they can be applied to the building.



Grid connected PV system

System size:	100 kWp
Number of modules / type:	296 double glass modules, type Pilkington, Optisol
Element size:	0.96 m x 4 m
Module area:	~ 1,000 m ²
Number of inverters / type:	2 x SMA SWR 2000, 21 x SMA SWR 2500