REFERENCE:

Carl Zeiss Forum/ Zeiss Museum der Optik, Germany

SLIM AND SMOOTH GLASS FACADE WITH REMARKABLE ENVIRON-MENTAL PROFILE

Integrated solar screening ensures an attractive and smooth facade, without compromising on daylight and a good indoor climate.

The Carl Zeiss Forum, home to conference facilities and the new Zeiss Museum of Optics, is a state-of-the-art building that was aiming to unite the Carl Zeiss Group's wish for innovative cleantech with its philosophy on form.

The building has a unique character with a large, smooth glass facade and no distracting mechanical solar screening. The glass facade lets light in, filling the room with natural daylight, but without heating the rooms up. The glass integrated with MicroShade's micro lamellas, which protect against the sun, has enabled the building to have an open and transparent, east-facing glass facade.

Visitors at the museum experience a very fine balance between the incoming light and shadow effects, while the heat from the sun is effectively blocked. MicroShade screens off up to 80 pct. of the heat, which has a positive effect on the building's energy profile and indoor climate.

MicroShade makes it possible to unite the wish for a large, transparent glass facade with a good indoor climate and sustainability.

Cleantech and the perfect right, smooth facade were decisive factors in choosing the solar screening, says the architect.

CONTRACTOR/ARCHITECT:
Carl Zeiss AG,
Günther Hermann Architekten

SOLAR SCREENING:
MicroShade MS-A.
2-layer glazing. 590-sqm facade.
g-value for the east facade:
Summer 0.22.

INDOOR CLIMATE:
Big reduction in energy consumption by 63,720 kWh (April – September), equivalent to 65% compared to a facade without screening.

ADVANTAGES:
- Saves on air-conditioning
- Easier facade construction
- Full view of the outside
- Natural daylight

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