



World Trade Center Malmö, Sweden



Sun. Light. WAREMA.

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The Western Harbour area is currently being transformed from an industrial district into a complete urban quarter with accommodation, services, workplaces and educational facilities. The City of Malmö has ambitious standards for ecological sustainability in the Western Harbour. The World Trade Center will be an integrated part of this expanding and eco-friendly region. The WTC consists of two buildings with 5 and 10 floors respectively, comprising 15,000 square meters of floor area. In total, 50 companies will have offices within the property.

The WTC Malmö was planned and built as a so called Green Building. Through a systematic review of every aspect of the energy consumption of the buildings, the World Trade Center Malmö has managed to bring down energy consumption to a total consumption of 120 kWh per square meter. This includes heating, cooling, electricity for maintenance and electricity utilized by the tenants. This success was only granted due to the cooperation with consultancy firms, suppliers and the Lund University.

Sun shading system

All facades facing east, west and south are equipped with a double skin cladding. This provides the opportunity of fitting the WAREMA external venetian blinds with flat aluminium slats and cable guidance in the void between the glazings. The northern facades are also equipped with external venetian blinds but as a self supporting system with beaded slats and rail guidance.

Both kinds of external venetian blinds provide effective use of daylight, guarantee sun and glare protection at the work place and provide an optimum level of

lighting inside. At the same time they also regulate the incidence of the sun's rays into the building and thereby ensure that the temperature is comfortably warm. This increases the employees' feeling of well-being at work and lowers the energy costs of artificial light.

Control system

The sun shading systems are automatically controlled by LONWORKS® technology. The decentralised bus system comprises a weather station, motorised controllers and operating units and provides effective sun shading with optimum lighting and temperature conditions in the office space. Important elements for the optimisation of sun shading and daylight guidance in the World Trade Center are slat tracking (automatic adjustment of the slat angle depending on the sun position), annual shading diagram (consideration of shade producing neighbouring buildings), and remote maintenance.

The blinds can be operated centrally and per facade of the building as well as manually to suit the individual needs of the users.

Client

Midroc Property Development AB,
Malmö/Sweden

Architects

Erik Kajo, WSP Sweden AB,
Stockholm/Sweden
Anders Blomquist, Krook & Tjäder,
Malmö/Sweden

Façade construction

Preconal (HansenGroup),
Falkenberg/Sweden

Sun shading system integrator

Jyllands Markisefabrik AB,
Denmark

Sun shading system

Electrically-driven, cable-guided venetian blinds E150AFAS and rail-guided venetian blinds E80A6AS both with work setting

- Sun and glare protection
- Enhanced well-being at the work place
- Lower energy costs by reducing the cooling load and artificial lighting

Control system

LONWORKS® technology

- Convenient control of complex sun shading systems
- Slat tracking to achieve optimum shading of rooms and buildings
- Annual shade diagram
- Quick and cost-effective adaption of the control system with help of remote-maintenance

Further information can be found at
www.warema.com



WAREMA International

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