

DK_Høje Taastrup_City 2		
Image 01: New entrance in west © CREO ARKITEKTER A/S	Image 02: Automated windows © WindowMaster A/S	Image 03: Open space/atrium © WindowMaster A/S
		
Building Specifications		
Address	Hveen Boulevarden, 2630 Høje Taastrup, Denmark	
Building Category	Shopping mall	
Year of Construction	Build in 1975 (renovated in 2010)	
Special Qualities	n/a	
Location	56° northern latitude, 12° eastern longitude. Located in urban area, but with a free space around the building. The building is enclosed with parking lots	
Climate	Cfb (warm temperate climate, moist with adequate precipitation in all months and no dry season, warm summer with the warmest month below 22°C)	
Vent. Cooling Site Design Elements (Solar Site Design and Wind Exposure Design, Evaporative Effects from Plants or Water)		
n/a		
Vent. Cooling Architectural Design Elements (Form, Morphology, Envelope, Construction & Material)		
<p>Form: Tree-storey rectangular building. The building is stretched along West/East direction</p> <p>Morphology: Stores located close to the external walls, thus creating a big open space/atrium in the central part of the building. Total floor area is 100,000 m². The construction is designed so all shops are getting daylight from the atrium.</p> <p>Envelope: Roof windows are placed above the atrium in the middle of the building. Large parts of the façade are made of large window sections to make use of daylight inside and to place openings for the natural ventilation system.</p> <p>Construction: Heavy mass building</p>		
Vent. Cooling Technical Components (Airflow Guiding Components, Airflow Enhancing Components, Passive Cooling Components)		
<p>Airflow Guiding Components: The lower placed windows in the façade are used as air inlets and the large window section at the roof is used as an outlet using the stack effect.</p> <p>Airflow Enhancing Components: Natural ventilation is done by stack ventilation or cross ventilation.</p>		

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Actuators, Sensors and Control Strategies
<p>Temperature sensors for the six zones of the atrium.</p> <p>Weather station measuring wind speed/direction, rain, temperature and humidity was set on the rooftop.</p> <p>The building is using NV Advance™ control system to control the natural ventilation and smoke management systems.</p> <p>Only the horizontally placed windows in the roof can be controlled manually.</p>
Building Energy Systems (Heating, Ventilation, Cooling, Electricity)
<p>Mechanical ventilation in the shops</p> <p>Information about electricity, heating and cooling is not available</p>
Building Ownership and Building Facility Management Structures
<p>Dainica Ejendomme owns the building, and retail spaces are rented to different companies.</p> <p>Architect: CREO ARKITEKTER A/S</p>
Aknowledgements
<p>n/a</p>
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