




DK_Hedehusene_DSV		
Image 01: The east façade ©Christensen Photography	Image 02: Atrium ©PLH Arkitekter A/S	Image 03: Interior view of offices ©PLH Arkitekter A/S
		
Building Specifications		
Address	Hovedgaden 630, 2640 Hedehusene, Denmark	
Building Category	Office	
Year of Construction	2014	
Special Qualities	The building satisfies the requirements for the Danish building regulations of 2020	
Location	56° northern latitude, 12° eastern longitude. Located in rural area with no surrounding buildings from south or west. The new cross-docking terminal is located in north	
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: Compact squared four-storey building with rounded corners.</p> <p>Morphology: It has an open office landscape with an atrium in the middle. The ground floor consists of reception, meeting rooms, changing rooms and a canteen. The remaining three floors consist of working areas. "Break-out" cafés are located in each corner. The total floor area is 16,000 m2.</p> <p>Envelope: Widely glazed façade</p> <p>Construction: Concrete structure</p>		
Vent. Cooling Technical Components (Airflow Guiding Components, Airflow Enhancing Components, Passive Cooling Components)		
<p>The windows in the façades are automatically controlled. The open floor plan aids natural ventilation.</p> <p>Natural ventilation is done by stack ventilation through the atrium.</p>		
Actuators, Sensors and Control Strategies		
<p>The façades are automatically controlled in relation to the indoor and outdoor conditions</p> <p>Temperature sensors are used to control the natural ventilation in the different zones</p> <p>Weather station measuring wind speed/direction, rain, temperature and humidity is placed on the rooftop</p> <p>The building is using NV Advance™ control system</p>		

IEA EBC Annex 62 Ventilative Cooling

Building Energy Systems (Heating, Ventilation, Cooling, Electricity)
Hybrid ventilation Air-condition system is integrated in the floor slabs, and solar cells are placed on the cross-docking terminal next to the building Information about heating is not available.
Building Ownership and Building Facility Management Structures
The building is owned and occupied by DSV. Architect: PLH Arkitekter A/S
Acknowledgements
n/a
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