

Image 01: The east façade © Window Master		Image 02: Automated windows © Window Master	Image 03: Ventilation scheme © Window Master
Building Specifications			
Address	Dr. Neergaards Vej 5C, 2970 Hørsholm, Denmark		
Building Category	Office		
Year of Construction	1988 (Renovated 2010)		
Special Qualities	n/a		
Location	56° northern latitude, 12° eastern longitude. Located in suburban area surrounded by buildings and trees		
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 Desig	gn Elements (Sola	r Site Design and Wind Exposure Design	gn, Evaporative Effects from Plants or Water)
n/a			
Vent. Cooling Architect	ural Design Elem	ents (Form, Morphology, Envelope, C	Construction & Material)
Morphology: Offices building. At least or ventilation possible. ventilation possible. renovation.	s, canteen, toilets he window is place In some of the k The total area tion of the façade	ted in each room, which secures bigger rooms and in the common of the building is 400m2, from	common room, which is placed in the core of the sufficient amount of daylight and makes natural room skylight windows are added, to make stack which 375m2 are naturally ventilated after the gned to facilitate the performance of the natural
Construction: Heavy	mass building		

IEA EBC Annex 62 Ventilative Cooling

Actuators, Sensors and Control Strategies

CO2 level and temperature sensors are positioned in each zone.

Weather station measuring wind speed/direction, rain, temperature and humidity is placed on the rooftop.

Besides the automatic control, manual window control is also possible. 30 min after the manual control has been used for the last time the windows are switched back to automatic control.

Natural ventilation is controlled by NV Comfort[™] system

Building Energy Systems (Heating, Ventilation, Cooling, Electricity)

District heating

Information about electrical system is not available.

Building Ownership and Building Facility Management Structures

Scion DTU owns the building. The building is rented out to different companies

Acknowledgements

n/a

Datasheet Source:

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