

AT_Graz_Karmeliterhof			
Image 01: Exterior view ©love architecture and urbanism		Image 02: Detail Façade view ©visual entertainment	Image 03: Detail Facade view ©love architecture and urbanism
Building Specifications			
Address	Karmeliterplatz 2, 8010 Graz, Austria		
Building Category	Office/Others		
Year of Construction	2011		
Special Qualities	n/a		
Location	47° northern latitude, 15° eastern longitude, situated in the heart of Graz's old town, on the northern part of the Karmeliterplatz (Karmeliter Square) and at the foot of the Schlossberg (castle hill). Embedded between the City Park and the old town's center.		
Climate	Dfb (Temperate climate snow, fully humid, warm summer (monthly mean temperature always under 22 °C, at least four month with a monthly mean temperature above 10 °C)		
Vent. Cooling Site Design	1 Elements (Solar	r Site Design and Wind Exposure Desig	n, Evaporative Effects from Plants or Water)
	of Graz is locate		n front of the building ameliorate the micro ts were added to the courtyard area, which had
Vent. Cooling Architectu	ral Design Elem	ents (Form, Morphology, Envelope, Co	onstruction&Material)
climate. Envelope: The facade circumferential frame collecting function in f penetration during the	is a climate faça that features ve the energy mana e day and reduci	de, a double-skin façade with a fix entilation openings at the bottom agement of the building. It improv	hed with plants to ameliorate the internal red glass front made of solar control glass and a and on the sides. The facade has a heat- es energy consumption by allowing solar heat ermal mass.
Vent. Cooling Technical	Components (Air	flow Guiding Components, Airflow En	hancing Components, Passive Cooling Components)
exterior façade. Weat night ventilation of th	her proof night e rooms.		ottom and on the sides of the windows of the which can be opened manually, and mechanical coreys via the courtyard.

Actuators, Sensors and Control Strategies

Control strategies are manually regarding window opening and automated in terms of mechanical extract ventilation.

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

Ventilation: mechanical ventilation system without heat recovery Cooling is only achieved by Ventilative Cooling.

Building Ownership and Building Facility Management Structures

Owned by LIG, Landesimmobilien Gesellschaft Graz, rented by the Government of Styria Architect: LOVE architecture and urbanism ZT GmbH

Aknowledgements

ETHouse Award 2011

Datasheet Source:

Institute of Building Research & Innovation

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