

Image 01: Exterior view ©MA34		Image 02: Interior view ©MA34	<b>Image 03:</b> Exterior view of facade ©MA34
Building Specifications	1		
Address	Gudrunstraße 110, 1100 Vienna, Austria		
Building Category	Educational		
Year of Construction	2014		
Special Qualities	n/a		
ocation	48° northern latitude, 16° eastern longitude 315 m above sea level		
Climate	CfB – The city has warm summers with average high temperatures of 24 to 33 ° C with maximum exceeding 38 °C and lows of around 15 °C. Winters are relatively dry and cold with average temperatures at about freezing point. Spring and autumn are mild.		
Vent. Cooling Site Desig	<b>n Elements</b> (Sola	r Site Design and Wind Exposure Des	ign, Evaporative Effects from Plants or Water)
-		of four connected wings which ea ding, but not specifically for impr	ach facing different orientation. The garden area oving microclimate.
Vent. Cooling Architect	ural Design Elem	ents (Form, Morphology, Envelope,	Construction&Material)
storeys. Construction & Mate	rial: Due to solid		o reduce solar heat gains. One wing has four ts of thermal mass. Openings between the classes e within the building.
Vent. Cooling Technical	Components (Ai	rflow Guiding Components, Airflow E	inhancing Components, Passive Cooling Components)
Under specific condit Airflow Guiding Com	ions, windows a ponents: Automa	re opened partially. ated windows in each classroom	n system had been developed and implemented. tilt open during night ventilation. haust air ventilation supports natural circulation
Actuators, Sensors and	Control Strategi	es	
The outer shading sy	stem as well as t	he night ventilation is implement	ted into the building control system. Solar

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

The building complex is connected to the municipal district heating system. Due to the different user requirements, radiators, floor heating or a combination of both is implemented. Warm water production and distribution is managed centrally for the wet areas connected to the gym. Single consumers (toilets, etc.) have electrical geysers. Active cooling only exists for the server room and IT classes.

Several central ventilation systems provide the necessary air exchange in common used areas. Classes are equipped with decentralised ventilation systems which are controlled by CO2- sensors.

Additionally, a photovoltaic system is installed on parts of the roof.

## **Building Ownership and Building Facility Management Structures**

Building owner: City of Vienna

Architect: PPAG

Facility Manager: PorrReal

## Aknowledgements

n/a

Datasheet Source:

Institute of Building Research & Innovation

© 2/2 All images and copyrights belong to the original owners and are reproduced for the purpose of training and education only