



sector:	housing
project:	New housing and daycare building 'Ekla', Sint-Jans-Molenbeek, BE
total area	6.700 m ²
Study start date:	October 2016
completion date	Execution
nature of work	Construction: study and following up MEP
cost techniques	€ 1.391.324,13 excl. VAT
client	citydev.brussels, Gabrielle Petitstraat 6, 1080 Brussels, BE
architect	A2M - architectenbureau, Brouwerijstraat 86, 1050 Elsene, BE

description

The 'Ekla' housing and daycare project is located on a large estate where other housing, offices, commercial spaces and hotel have already been built. The project meets the requirements for the areas spatial planning and the demographic needs

In this five level housing complex are 31 homes with a crèche on the ground floor.

The energetic target is to achieve the passive label (PassivHaus) as well as a 50% net zero energy building. This is made possible by utilizing high-performance insulation in the shell of the building, using ecological materials and triple glazed windows. Rainwater is harvested by the green living roof, stored in a cistern and used to irrigate the green roof and the gardens.

The comfort is ensured by two gas fired cogeneration systems and high-performance gas condensing boilers. This system is also linked to photovoltaic panels that cover energy needs of the common/general areas.

A ventilation group with a double flow is equipped with a heat recovery exchanger, ensuring hygienic ventilation in every home.

sustainable

K Level: -

E Level: -

Certification: PassivHaus (Passive House)

Nulenergie (Net Zero Energy Building)

general data

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PV panels



comfort



reuse rainwater



waste management



water management



natural ventilation



CHP



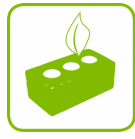
green roof



heat recovery



glazing



ecological materials



insulation