

Object name

Schoolbuilding, Beernem**Belgium**

Object photo



Object description

The passive school is the first phase of a masterplan to extend and reorganise the Beernem secure care prison facility, part of the Belgian juvenile justice system. The total masterplan includes the school, but also a sports hall and multiple housing blocks for the residents, all planned in passive standard.

The school building houses classrooms, practice rooms and a kitchen for 40 girls. The building contains no circulation areas, all corridors are external, between the robust wooden sunscreens and the classrooms themselves.

Fact sheet

Schoolbuilding in 8730 / Beernem

| | |
|----------------------|--------------------|
| Treated Floor Area | 701 m ² |
| Number of apartments | --- |
| Completion date | 2006 |

Energy standard [PHPP]

| | |
|--|-------------------------|
| Heat requirement / year | 10 kWh/m ² a |
| Heat load | 14,2 W/m ² |
| Primary energy requ. | - kWh/m ² a |
| Air-tightness (n ₅₀ -value) | 0,59 1/h |
| Building type | Timber construction |

U-value

| | |
|-------------------|-------------------------|
| Exterior wall | 0,13 W/m ² K |
| Roof | 0,10 W/m ² K |
| Basement floor / | 0,14 W/m ² K |
| Floor slab | |
| Windows / average | 0,55 W/m ² K |

Specification ventilation system

Central System

Heating installation

Condensing gas boiler

Construction costs --- Euro/m²**Building owner**

De Zande

Architect/Planner

BURO II

Photo credits

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