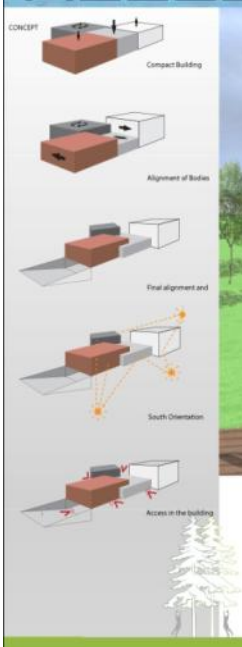
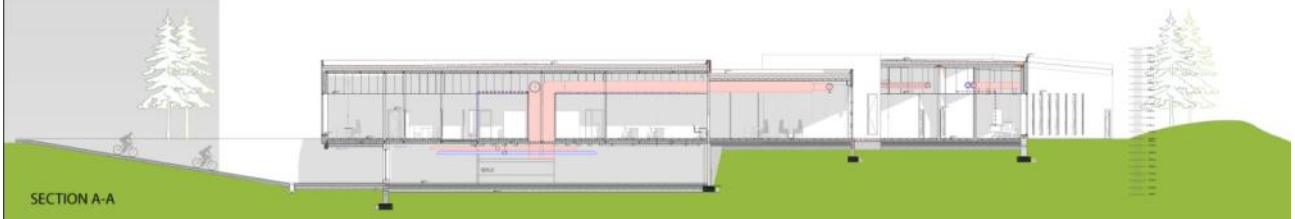


SOUTH ELEVATION



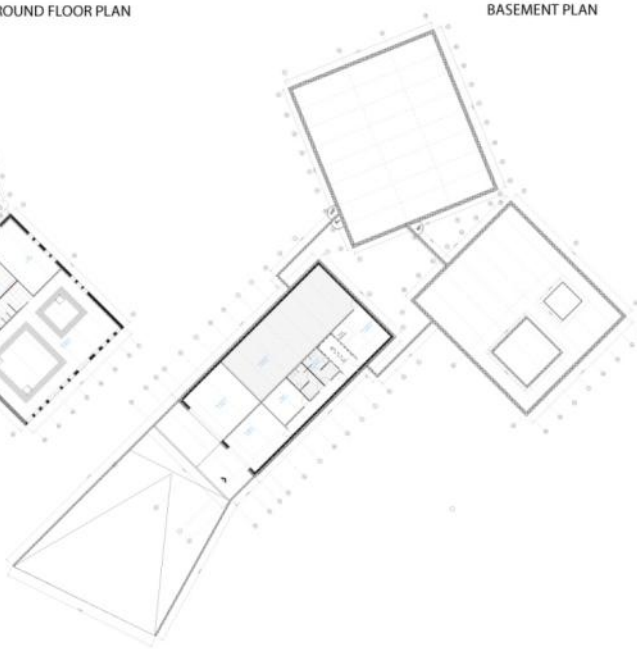
SECTION A-A

Pulse will represent the main attraction in the Skive region and as well central Juland. It will be the center pole for people involved in educational, cultural and health activities.It will be a place of development and a generator for the city life.
The project Multihouse Pulsen makes itself remarked in the area of Skive for its quality that unifies the citizens interestes by ensuring their health quality and as well their educational purposes. Pulse is a sustainable approach that fully fits the high standards of the Danish Architecture. Its design is composed of three compact bodies: a sport facility, a health center and a swimming pool area unified by a fluid, common space that fills the surroundings with natural light and worm ambiance.

In PULSE project the focuses from the sustainable point of view were not only about finding technical solutions but also about designing interrelationships and systems. A contemporary design is a response to the global problems, particularly the global warming through CO2 emissions. Such a house needs to be driven by long-term issues of energy performance and rapid change of cultural theories, as well it has to withstand a long life expectancy and low maintenance.
The basic technological influence of the house is its need to face south in order to maximize solar gain through the glazing. A feature that Pulse Project had incorporated was the calculation of level of insulation right from the design phase, in order to eliminate the need for space heating.
The multipurpose building has a total are of 1991 square meters and covers 4, 13 % of the entire area of the plot. The materials are prefabricated and chosen to fit the high criteria of insulation. The building is thermally heavy in order to store heat gains, by having dense concrete prefabricated elements with a U-value of 0, 119W/m2K. The floors are either prefabricated concrete elements or cast in situ for a better air-tightness.
Mechanical ventilation is provided for the air change inside the building with the the use of heat recovery techniques.This provides a considerable reduction of energy penalty by almost half of the costs and its termal efficiency reaches approximately 90%.
As an environmentally friendly solution, we propose the use of rainwater as flushing water since in an average building, 35% of the drinkable water is daily flushed away. Due to the large amount of farm in the nearby fields, the organic waste from the canteen kitchen can be used for fertilizing, providing in this way significant energy savings.

GROUND FLOOR PLAN

BASEMENT PLAN



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First International Conference on Architecture and Urban Design
EPOKA University, Tirana-Albania , April 19-21, 2012
EPOKA
Nyholmvej
Stadion Alle
Posthusvej
Main Parking for Pulse Multihouse and Balling School
Area of terrain: 7295, 3 m2
Building surface: 1540 m2
Plot ratio: 4,75%
Balling School
Tennis Fields
Football Field
Football Field
Football Field
Entertainment park
Park
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