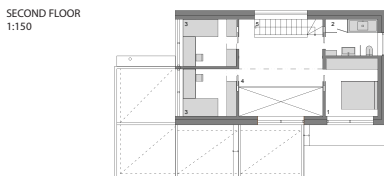


PASSIVE ENERGY HOUSE BRNO - OBŘANY

Built-up area: house 81 m², terrace 47 m²
Floor area: 111 m² / living area: 69 m²
Enclosure: 493 m²

A simple compact block with a terrace and a pergola on the south side of the house, disposition for a family with two children. The layout of the house is traditional - the ground floor is the social part - living room and dining room with kitchen, hall and a bathroom with toilet and shower. Upstairs is a gallery and bedrooms with a game room. Important architectural and spatial element is the optical interconnection of the two floors of living space with garden window. All windows are fitted with blinds. The house has a heat recovery ventilation, heating is split units with heat pump, hot water solar collectors with an electric heater. The project is ready for installation of intelligent home management system.



- LEGEND
1. BEDROOM
 2. BATHROOM
 3. CHILDREN'S ROOM
 4. GAME ROOM
 5. STAIRS



- LEGEND
1. HALL
 2. BATHROOM WITH WC
 3. DINING ROOM
 4. LIVING ROOM
 5. KITCHEN
 6. STAIRS
 7. STORAGE
 8. PLATFORM
 9. FIREPLACE

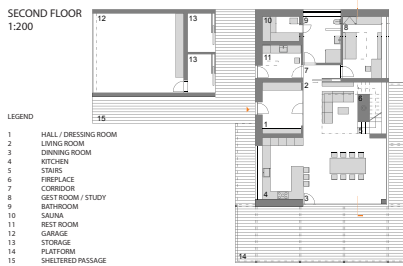
PHOTO 2012



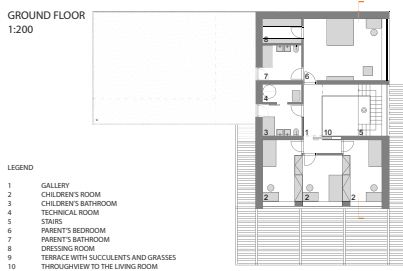
PASSIVE ENERGY HOUSE HAVLÍČKŮV BROD

Built-up area: house 246 m², terrace 121 m²
Floor area: 226 m²
Enclosure: 493 m²

A simple compact block, two-storey villa with large windows on the south side, a terrace and a pergola on the southwest side of the house, disposition for a family with three children. On the first floor there is a main living space elevated, lighted with a glass wall leading to terrace, which connects the house with a living garden. There is also sauna and a guest room on the first floor. On the second floor, accessible from the gallery, there is a private zone with bedrooms, hygienic facilities and technical room with the central unit integrating ventilation and heating. The basic heat source for heating, warming hot water and ventilation is integrated air condition unit with heat recovery and inner heat pump connected to the integrated heat storage tanks with preheating of water with by solar panels.



- LEGEND
1. HALL / DRESSING ROOM
 2. LIVING ROOM
 3. DINING ROOM
 4. KITCHEN
 5. STAIRS
 6. FIREPLACE
 8. CORRIDOR
 9. GUEST ROOM / STUDY
 10. BATHROOM
 11. SAUNA
 12. REST ROOM
 13. GARAGE
 14. STORAGE
 15. PLATFORM
 16. SHELTERED PASSAGE



- LEGEND
1. GALLERY
 2. CHILDREN'S ROOM
 3. CHILDREN'S BATHROOM
 4. TECHNICAL ROOM
 5. STAIRS
 6. PARENT'S BEDROOM
 7. PARENT'S BATHROOM
 8. DRESSING ROOM
 9. TERRACE WITH SUCCULENTS AND GRASSES
 10. THROUGHVIEW TO THE LIVING ROOM

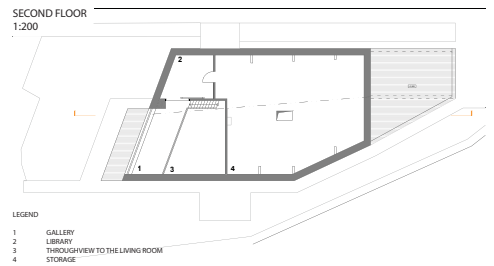
PHOTO 2012



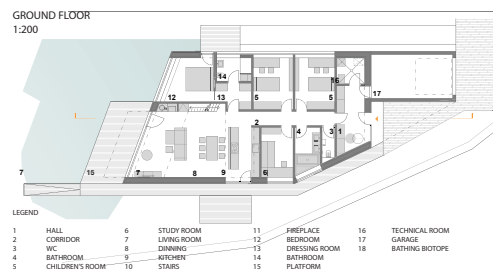
PASSIVE ENERGY HOUSE BORINKA, SLOVAKIA

Built-up area: 186 m²
Floor area: 175 m²
Enclosure: 1124 m²

A single-storey house with embedded galleries, dedicated for a family with two children, layout and location of the house within the site were created according to the shape of the site. The main objectives of the design:
- elimination of environmental impact - minimal energy consumption for the construction,
- zero energy costs for home operation - the house is designed so as during the operation it produces more energy than it consumes itself. On the southeast side of the roof of the house there are photovoltaic panels placed. The house is designed with a green roof, reducing the rainwater runoff. The materials used were chosen in order to meet an energy-saving building concept with superior thermal insulating properties, emphasizing elimination of thermal bridges. Thermal insulation is from renewable sources. Ventilation is compulsory, heating is electric accumulative.



- LEGEND
1. GALLERY
 2. LIBRARY
 3. THROUGHVIEW TO THE LIVING ROOM
 4. STORAGE

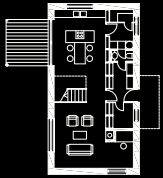
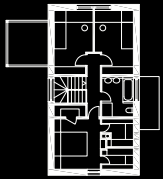
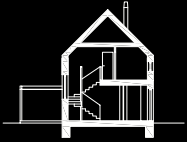


- LEGEND
1. HALL
 2. CORRIDOR
 3. WC
 4. BATHROOM
 5. CHILDREN'S ROOM
 6. STUDY ROOM
 7. LIVING ROOM
 8. DINING
 9. KITCHEN
 10. STAIRS
 11. PREPLACE
 12. BEDROOM
 13. DRESSING ROOM
 14. BATHROOM
 15. PLATFORM
 16. TECHNICAL ROOM
 17. GARAGE
 18. BATHING BIOTOPE

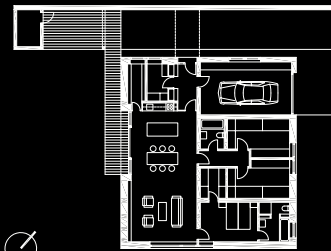
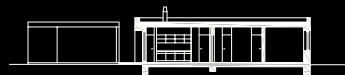
PHOTO 2012



Family house in Popovičky, Czech republic, 2008



Family house in Rovina, Czech republic, 2012





Kolana House library - Starý Poděbrice / implementation: 2011



Office building Supinač - Ostrava / implementation: 2008



The Housing development - Holbořín Za kámenem / implementation: 2010