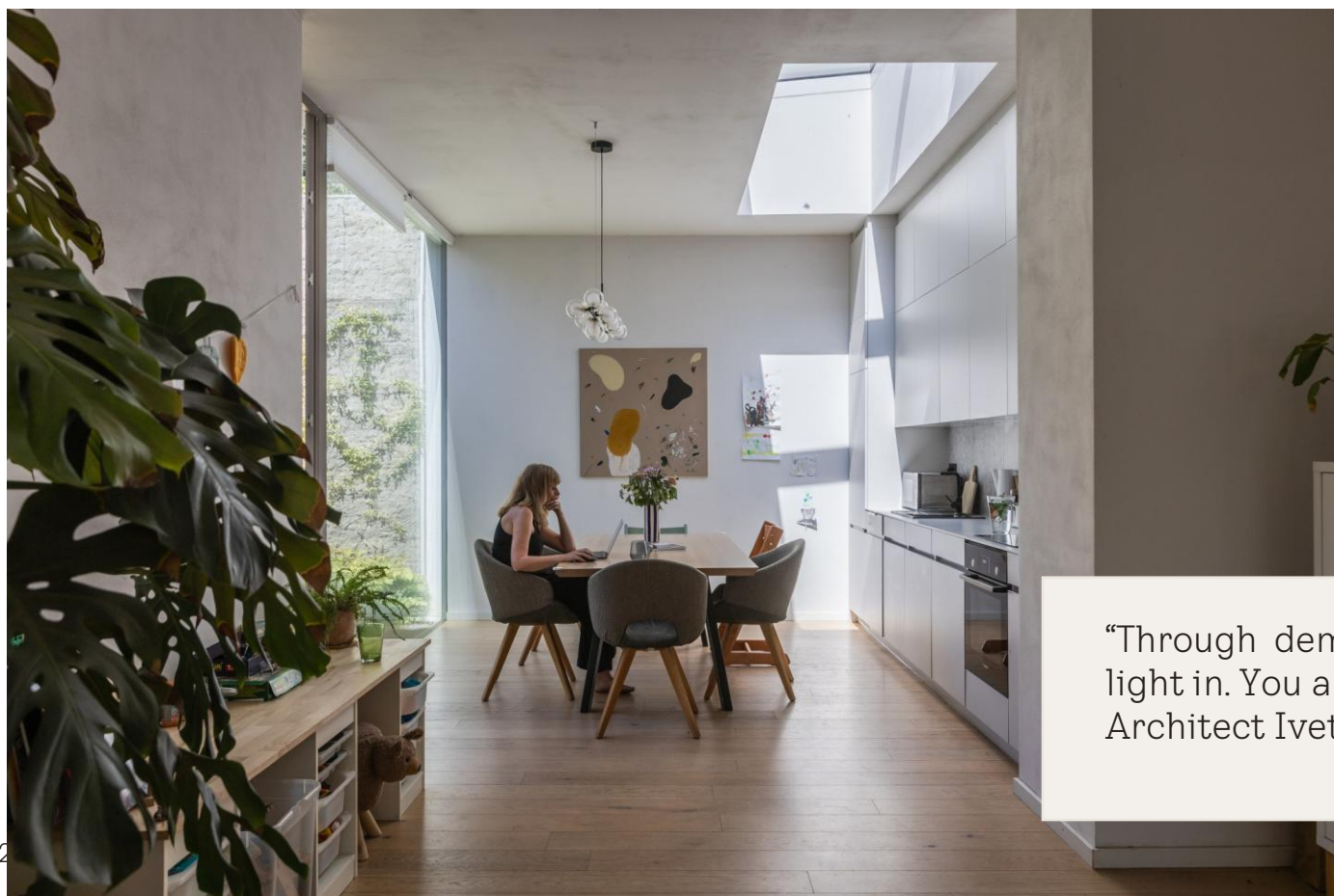


House connected with
greenery

VELUX®

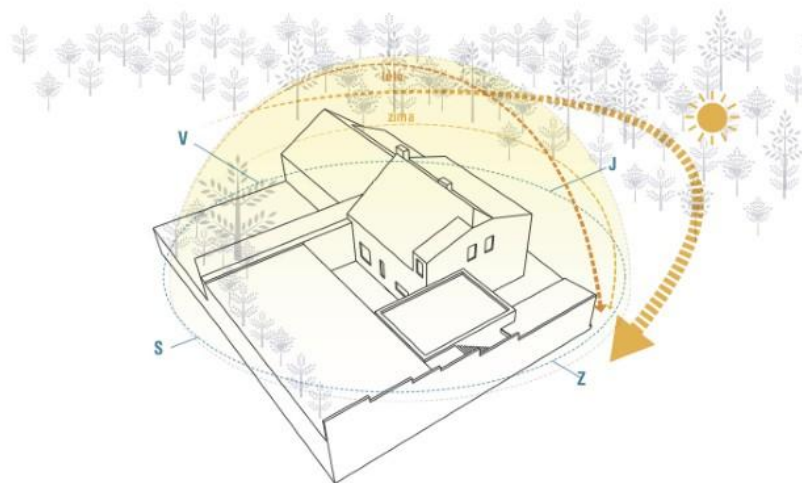


The two-storey family house is part of a historic residential area bordering a nature park on the outskirts of Prague. Originally, the house was dark, poorly arranged, and disconnected from its surroundings. The renovation added generous glazing that revealed the site's full potential, flooding the interior with daylight and helping the house blend naturally into the landscape

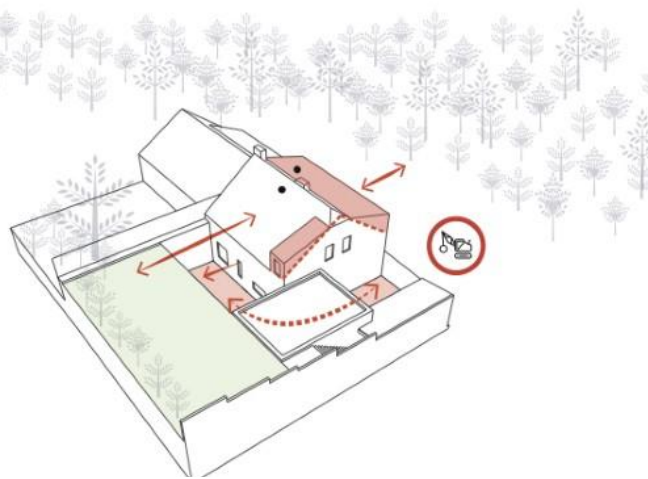


“Through demolition works, we opened up the interior space and let light in. You are inside, yet you feel almost as if you were outdoors.”
Architect Iveta Langerová, author of the design and owner of the house.

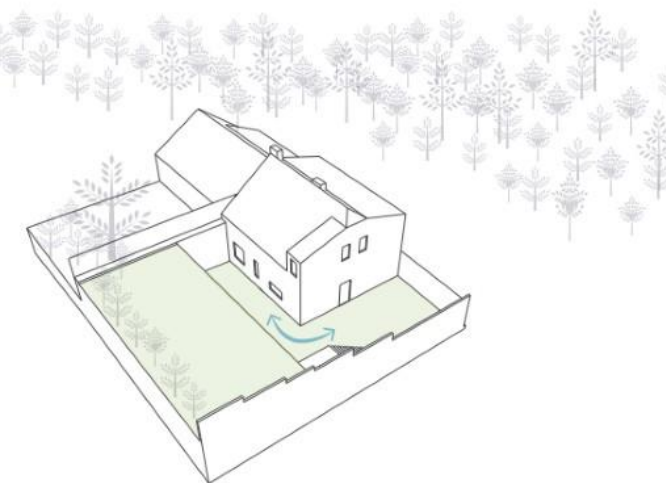




Orientation of the building in relation to the cardinal directions



- Removal of unsuitable surrounding structures
- Removal of inappropriate alterations to the building and restoration of the house's original shape
- Lack of connection between the house and the upper garden, the lower atrium, and the view toward the natural park



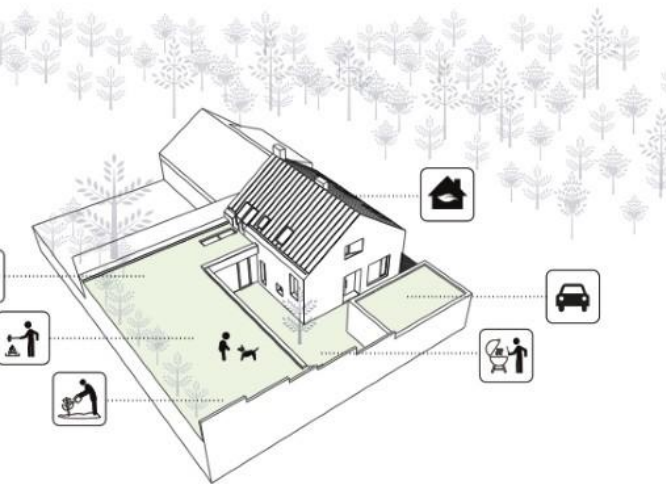
Demolition of adjacent structures creates an open and connected surrounding space



By extending the living space on the ground floor, the house becomes connected to the garden on all levels

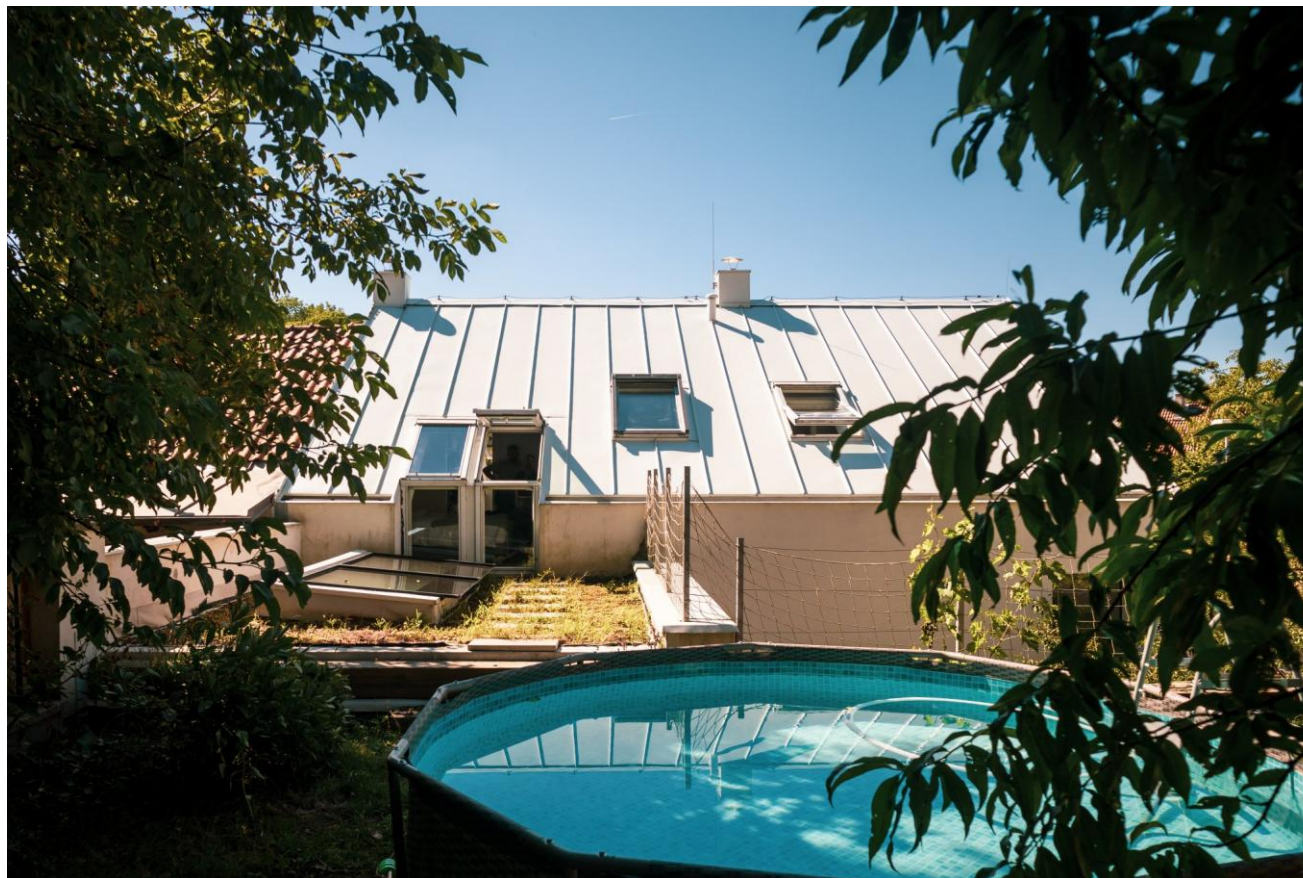


Opening the house to the surrounding landscape and using greenery as an integrated interior element



Creation of an energy-efficient home that meets 21st-century standards

The original simple form of the house with a gabled roof had, over more than a hundred years of use, been deformed by various extensions and add-ons. The complete renovation removed this accumulated mass and restored the building's simplicity. The house was revived in its original outlines, but as a sustainable home with modern, minimalist, clean lines. The result is a bright and pleasantly airy space where a family with children can naturally live in contact with the outdoors, despite being in the middle of the city. Moreover, it is energy-efficient: modern technologies have ensured low-energy living with operating costs reduced to just one third compared to the original building.





The site's layout allowed the house to be naturally linked to its greenery on every level. The new concept focused on opening the building: large glazed areas were added, window openings enlarged, and a kitchen with a dining area was built on, illuminated by a roof window.





“In the morning, when we wake up, we have a view of the garden from the bed. We don’t feel cramped,” Iveta Langerová describes their effect in the bedroom.



This extension expanded the living space and, with its green roof, connected seamlessly to the upper garden. This original solution also made it possible to access the garden directly from the attic bedroom through the sloping roof. The roof terrace is not only a gateway to nature but also floods the north-facing bedroom with plenty of natural light.



“Daylight is a key factor in my designs. We addressed the lighting of individual rooms in relation to their orientation, choosing window sizes accordingly. The sightlines respond to the surroundings, to the distinctive greenery or elements that could be brought from the exterior into the interior.”

Iveta Langerová



The upper level contains the private area with children's rooms and a bathroom, as well as a bedroom with direct access to the garden, a walk-in wardrobe, and an en-suite bathroom. The result is optimal daylighting of all spaces, including the corridor and the bathroom, which also benefits from natural ventilation thanks to a roof window.



“Thanks to roof windows, we can beautifully illuminate the attic space, but also cool it down. We have windows on both sides of the house, and air circulation helps cool the rooms,” she explains their functional purpose in the attic. She adds that roof windows also increase the overall quality of the space, making rooms feel larger and more open.



The result of the renovation and subsequent upgrades is a low-energy, modern, and healthy home that supports the natural rhythm of family life. The connection with nature here is not just a view from a window – it is literally part of everyday living.



“In small rooms such as bathrooms, we used roof windows to increase usable floor area, because a roof window can add up to forty centimeters in height.”

Iveta Langerová



VELUX VEA / VEC 2065G

- Vertical lower elements of the VELUX roof-terrace system, installed below the upper GEL section for full-height daylight and outdoor connection.
- Built from laminated pine with triple-coat finish and 65G triple glazing for high thermal insulation, laminated safety glass and toughened outer pane.
- Provide floor-to-ceiling views, anti-dew coating and reduced rain-noise performance.
 - VEA 2065G = right-hinged, outward-opening door for terrace access.
 - VEC 2065G = fixed, non-opening element used to extend the glazed area
 - U-value is specified as $U_w = 1.2 \text{ W/m}^2\text{K}$.





Project Details

Project: A House Connected with Greenery

Location: Prague, Czech Republic

Architect: Iveta Langerová Architekti

Year: 2020

Photographs: Miro Pochyba

Videos: Jan Ruttner

VELUX Products used:

6pcs GLU 0064Z

7pcs ZWC 0000T

7pcs BDX 2000

1pcs GLU 0064Z

2pcs GEL 2065G

1pcs VEA 2065G

1pcs VEC 2065G

7pcs MSL 5060SA

2pcs MHL 5060G

5pcs FHC 1045SWL

4pcs DKL 1085SWLG

5pcs KSX 100K WWA

1pcs KIX 300 EU



