

Lauren Morris-Jansen
François-Luc Giraldeau
Noor Al Qayem



THE FUTURE PROOF HOME

Design for Conscious Living

FRAME



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This self-sufficient, woodside home in Central Bohemia works in tandem with the elements

MALÉ KYŠICE, CZECH REPUBLIC – Situated on the edge of Czech town Malé Kyšice, near the Křivoklát woods, is a family home designed to open to the sun. Conceived by stempel & tesař, the Central Bohemia house has a quarter-circle shape, with many anthracite-framed windows oriented toward a small pond and fully grown garden. Its rounded wall and ceilings are constructed from wood, and other walls from exposed concrete blocks. This materiality continues extensively inside. Wood was an obvious choice for the primary material, as the inhabitants have deep respect for nature and are committed to sustainable choices. Indoors, stempel & tesař installed built-in furniture between beams, giving way to rooms reminiscent of a ship's cabins. Steel joints and tie rods add a finishing touch to the exterior and interior.

Self-sufficiency was a key goal. The building's curved form allows it to absorb a maximum of solar energy. An overhanging roof, horizontal shading and blinds built into the triple-glazed windows protect the space from overheating



on summer days. In the winter, a stove with a heat exchanger positioned at the heart of the home, and an insulated sandwich wall, boost the home's warming. Recuperated warmed fresh air from outdoors wafts in. Meanwhile, rainwater collected by the adjacent pond hydrates plants in the garden. All water on the property is used at least twice, and the property doesn't release any wastewater into local sewers. Buried under the landscape is a cellar prefabricated from recycled plastic that stores gardening tools, bicycles and more.

Photos Filip Šlapal



The use of wood and concrete addresses two important aspects of sustainability in building: Durability and longevity

