



THE MINIMALIST CUBE HOUSE

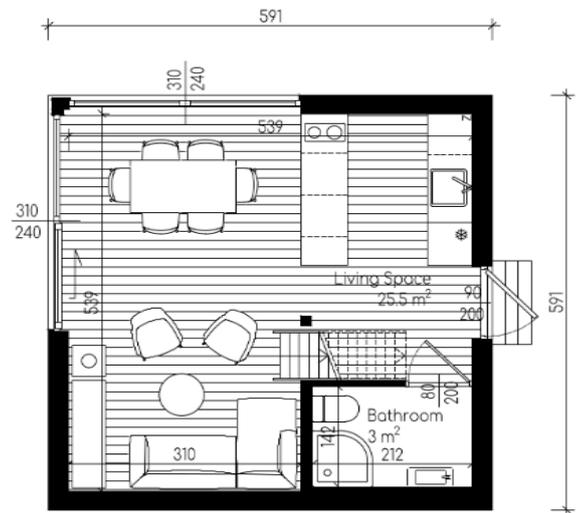
Stork

A geometric form, into which nature sneaks in through its large windows - this is the Stork house that will surprise you. Thanks to the large, sliding windows, you can go outside directly from the living room and take a deep breath. A simple cubic form, a flat roof and horizontal windows are features borrowed from modernism that we share with you. Bring simplicity into your life and feel free.

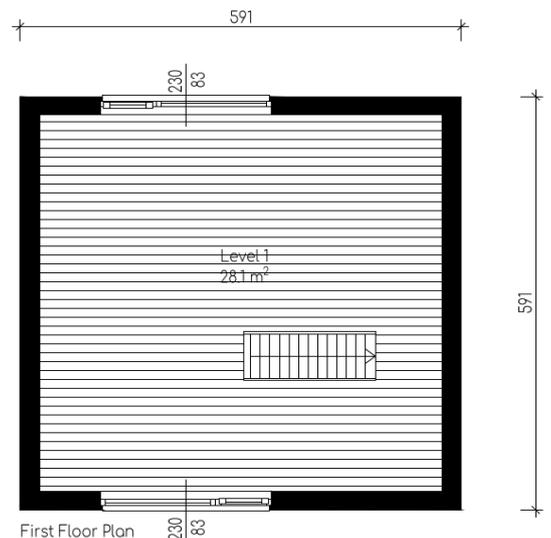
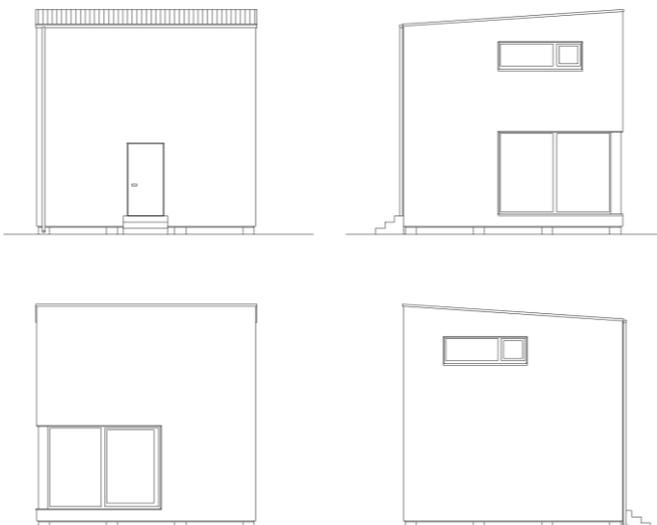
BUILDING AREA	35 m ²
NET AREA	56,76 m ²
HEIGHT	6,60 m
ROOF TYPE	FLAT

Pleasure within a cube

The design was inspired by a modernist house with a clean, cubic shape. The form has been enriched with large glazing with a sliding terrace window. The large glazing in the corner, characteristic of the building, provides adequate lighting to the interior, at the same time giving the impression that the surrounding nature penetrates inside. The exceptionally large area of the building gives many development opportunities, and the solution of the square plan allowed for the functional layout of the rooms. The building has an entrance area with a wardrobe, a spacious living room with a kitchen and a dining area, and a bathroom. An open space has been planned in the large attic. The possibility of adding a terrace allows you to extend the relaxation area by additional square meters.



Ground Floor Plan



First Floor Plan

Technological standards *

frame technology, heat transfer coefficient $U = 0.20 \text{ W} / \text{M}^2\text{k}$

ELEVATION

HORIZONTAL GRATE	Bare (larch) cladding board; 22 mm thick
VERTICAL GRATE	Larch cladding board, painted with impregnation; 22 mm thick
WIND BARRIER	Impregnated square (spruce) timber; 25x50 mm
CONSTRUCTION	Impregnated square (spruce) timber; 25x50 mm
THERMAL INSULATION WITHIN THE STRUCTURE	Highly vapor-permeable membrane; weight: 233 g / m ²
SHEATHING	(C24) Spruce wood; 45x120 mm
VAPOR INSULATION	Mineral wool; 12 cm thick; $\lambda = 0.035 \text{ W} / \text{mK}$
INSTALLATION GRID	OSB board; 12 mm thick
THERMAL INSULATION WITHIN THE GRID	Activated foil; weight: 77 g / m ²
FINISH	(C24) Spruce wood; 45x45 mm
WYKOŃCZENIE ²	Mineral wool; 5 cm thick; $\lambda = 0.033 \text{ W} / \text{mK}$
	Drywall; 12.5mm thick
	Spruce panel boards; 12.5 mm thick

ROOF

wooden structure with a suspended ceiling; heat transfer coefficient; $U = 0.15 \text{ W} / \text{m}^2\text{K}$
Includes steel guttering and flanges

COVERING	Seam sheet; color RAL 7016
RAFTER	Impregnated square (spruce) timber; 40x60 mm
BATTEN	Impregnated square (spruce) timber; 25x50 mm
INITIAL COVERING	Highly vapor-permeable membrane; weight: 233 g / m ²
CONSTRUCTION	(C24) Spruce wood; 22x4.5 cm
THERMAL INSULATION WITHIN THE STRUCTURE	Mineral wool; 20 cm thick; $\lambda = 0.033 \text{ W} / \text{mK}$
VAPOR INSULATION	Activated foil; weight: 77 g / m ²
INSTALLATION GRID	(C24) Spruce wood; 45x45 mm
THERMAL INSULATION WITHIN GRID	Mineral wool; 20 cm thick; $\lambda = 0.033 \text{ W} / \text{mK}$
FINISH	Drywall; 12.5mm thick
	Spruce board panels; 12.5 mm thick
GUTTERING, FEATHERING	Complete set of steel guttering; color of the roof

GROUND FLOOR

wooden structure; heat transfer coefficient $U = 0.15 \text{ W} / \text{m}^2\text{K}$

FINISH	Spruce floor boards; 28 mm thick
	3-layered oak boards; 14 mm thick
UNDERLAY	Cork; 2 mm thick
SHEATHING	OSB board; 22 mm thick
VAPOR INSULATION	Activated foil; weight: 77 g / m ²
GRATE	Impregnated square (spruce) timber; 45x45 mm
THERMAL INSULATION WITHIN GRID	Mineral wool; 5 cm thick; $\lambda = 0.033 \text{ W} / \text{mK}$
CONSTRUCTION	(C24) Spruce wood; 22x4.5 cm
THERMAL INSULATION WITHIN THE STRUCTURE	Mineral wool; 20 cm thick; $\lambda = 0.033 \text{ W} / \text{mK}$
RODENT PROTECTION SEAL	Bitumised OSB board; 12 mm thick
CEILING	
FINISH	Spruce board panels; 12.5 mm thick
SHEATHING	OSB board; 22 mm thick
CONSTRUCTION	(C24) Spruce wood; 22x4.5 cm
FINISH	Drywall; 12.5mm thick
	Spruce board panels; 12.5 mm thick

PARTITION WALL

light technology on a structure made of CW steel profiles

FINISH	Drywall; 12.5mm thick
CONSTRUCTION	(C24) Spruce wood; 45x95 cm

JOINERY

WINDOWS	Pine wood; double glazed; $U_w = \text{max. } 1.22 \text{ W} / \text{m}^2\text{K}$
	Pine wood; triple glazed; $U_w = \text{max. } 0.9 \text{ W} / \text{m}^2\text{K}$
PATIO DOORS	Pine wood; double-glazed; tilted & sliding; $U_w = \text{max. } 1.19 \text{ W} / \text{m}^2\text{K}$
	Pine wood, triple-glazed, tilted & sliding; $U_w = \text{max. } 0.9 \text{ W} / \text{m}^2\text{K}$
EXTERIOR DOORS	Metal & wood; $U_d = \text{max. } 0.96 \text{ W} / \text{m}^2\text{K}$

CARPENTRY PACKAGE

INTERIOR DOORS	Knotless, ground, pine door with a fixed door frame; unpainted
SCHODY	Unpainted pine milling stairs
RAILING	(C24) Wood; 4.5x4.5 cm
FINISHING STRIPS	Quarter-round corner finishing strip; wooden angle

INTERNAL INSTALLATIONS

VENTILATION	PVC ventilation ducts with fireplace & sewage exhaust mechanical ventilation fan
SEWEGE	Complete system of polypropylene (PP) pipes for fittings & venting; assortment to be hooked-up by yourself
WATER	Push-in polybutylene piping system, complete installation from cold water valve connector pipe, including but not limited to: manifolds, couplings, pipes and approaches
ELECTRIC	Boxless installation; including: switchgear, plug-in sockets, connectors, wires run in conduits

* Certain specifications may vary, depending on the country and its building regulations, in which the project takes place.

Materials used

C24 WOOD

All construction elements are made of certified wood (high strength class C24) from Scandinavian forests which, due to severe weather conditions and long winters, are characterized by slow growth, which makes the wood hard and durable. Chamber drying to a humidity of 15-18% additionally makes it free from all fungi and insects.



HIGHLY PERMEABLE MEMBRANE

To protect the surface against moisture, a top-class, diffusion, 3-layer, highly vapor-permeable membrane with a grammage of 233 g / m² is used. It can act as a roof and facade for up to 6 months, due to the guaranteed resistance to UV radiation during this time.



MINERAL WOOL

All partitions are insulated with mineral wool. Vertical partitions are insulated with wool of increased stiffness to prevent the wool from collapsing by gravity. HYTA houses meet the requirements for thermal transmittance of partitions, set for all-year-round buildings for 2021.



WOODEN WINDOW JOINERY

The houses are equipped with very high-quality wooden windows. Window joinery made of natural material is an ecological solution that allows for large glazing.

