

Allow yourself to rest, like never before.

An extremely spacious house, with its simplicity resembling a classic barn. Thanks to the glass gable wall and the open form of the interior, both the ground floor and the attic remain filled with daylight. The building has a very functional layout of the rooms. When designing this, we planned a large living space during the day for its residents with an open kitchen, bathroom and bedroom, as well as a spacious mezzanine. Additionally, we have created a practical entrance area with a large wardrobe accessible from the coridor. The illuminated and spacious living room can be additionally enlarged with a terrace, which, thanks to large sliding windows, can be combined with the interior, so that it constitutes on extension of the relaxation area.







Technological standards *

WALL CONSTRUCTION frame technology, heat transfer coefficient U = 0.20 W / M2k ELEVATION

HORIZONTAL GRATE VERTICAL GRATE WIND BARRIER CONSTRUCTION THERMAL INSULATION WITHIN THE STRUCTURE Mineral wool; 12 cm thick; λ = 0.035 W / mK SHEATHING VAPOR INSULATION INSTALLATION GRID THERMAL INSULATION WITHIN THE GRID FINISH

Bare (larch) cladding board; 22 mm thick Larch cladding board, painted with impregnation; 22 mm thick Impregnated square (spruce) timber; 25x50 mm Impregnated square (spruce) timber; 25x50 mm Highly vapor-permeable membrane; weight: 233 g / m² (C24) Spruce wood: 45x120 mm OSB board: 12 mm thick Activated foil; weight: 77 g / m² (C24) Spruce wood; 45x45 mm Mineral wool; 5 cm thick; λ = 0.033 W / mK

Drywall: 12.5mm thick Spruce panel boards; 12.5 mm thick

Trapezoidal sheet; color RAL 9007

(C24) Spruce wood; 22x4.5 cm

Activated foil; weight: 77 g / m²

(C24) Spruce wood: 45x45 mm

Drywall; 12.5mm thick

Cork: 2 mm thick

OSB board: 22 mm thick

OSB board; 22 mm thick

Impreanated square (spruce) timber: 40x60 mm

Impregnated square (spruce) timber; 25x50 mm

Mineral wool; 20 cm thick; $\lambda = 0.033$ W / mK

Complete set of steel guttering; color of the roof

Impregnated square (spruce) timber; 45x45 mm

Mineral wool; 5 cm thick; λ = 0.033 W / mK

Mineral wool; 20 cm thick; $\lambda = 0.033$ W / mK

Spruce board panels; 12.5 mm thick

Spruce floor boards; 28 mm thick 3-layered oak boards; 14 mm thick

Activated foil; weight: 77 g / m²

(C24) Spruce wood; 22x4.5 cm

Bitumised OSB board; 12 mm thick

Spruce board panels; 12.5 mm thick

(C24) Spruce wood; 22x4.5 cm

Highly vapor-permeable membrane; weight: 233 g / m²

ROOF

wooden structure with a suspended ceiling; heat transfer coefficient; U = 0.15 W / m2K Includes steel guttering and flanges COVERING Seam sheet; color RAL 7016

RAFTER BATTEN INITIAL COVERING CONSTRUCTION THERMAL INSULATION WITHIN THE STRUCTURE Mineral wool; 20 cm thick; λ = 0.033 W / mK VAPOR INSULATION INSTALLATION GRID THERMAL INSULATION WITHIN GRID FINISH

GUTTERING, FLOORING

FINISH

GROUND FLOOR wooden structure; heat transfer coefficient U = 0.15 W / m2K FINISH

UNDERLAY SHEATHING VAPOR INSULATION GRATE THERMAL INSULATION WITHIN GRID CONSTRUCTION THERMAL INSULATION WITHIN THE STRUCTURE RODENT PROTECTION SEAL MEZZANINE FINISH SHEATHING CONSTRUCTION

	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; Uw = max. 1.22 W / m2K
	Pine wood; triple glazed; Uw = max. 0.9 W / m2K
PATIO DOORS	Pine wood; double-glazed; tilted & sliding; Uw = max. 1.19 W / m2K
	Pine wood, triple-glazed, tilted & sliding; Uw = max. 0.9 W/m ² K
EXTERIOR DOORS	Metal & wood; Ud = max. 0.96 W / m2K
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 a
ELECTRIC	Boxless installation; including: switchgear, plug-in sockets,
	connectors, wires run in conduits

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, hiahlv diffusion. 3-laver, 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-yearround 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 glazina





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