



FUNCTIONAL BARN-TYPE HOUSE

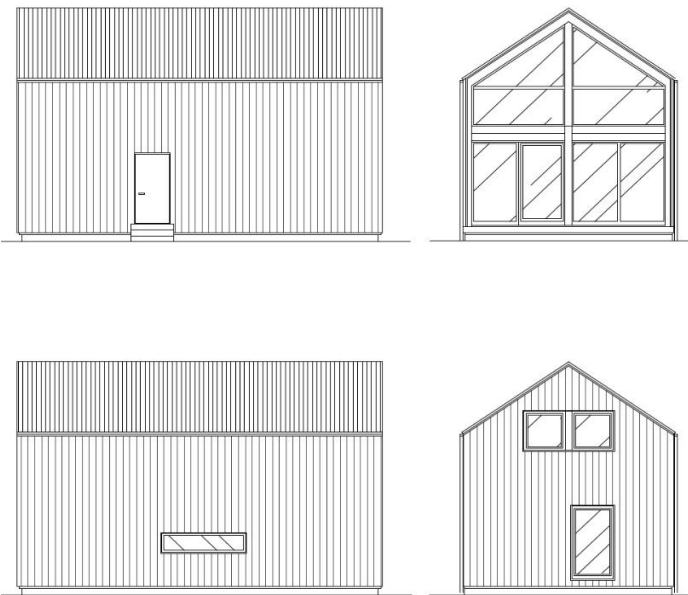
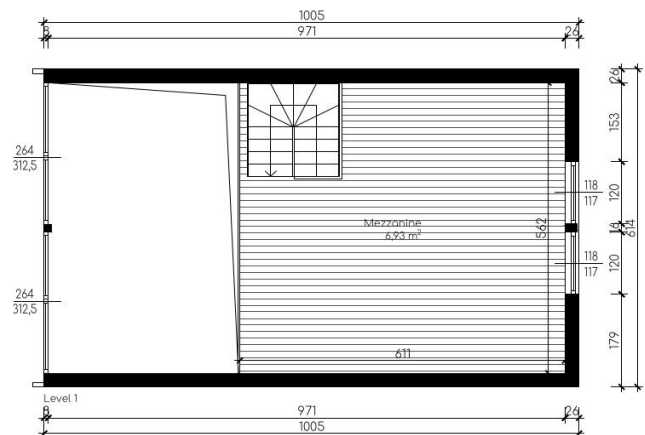
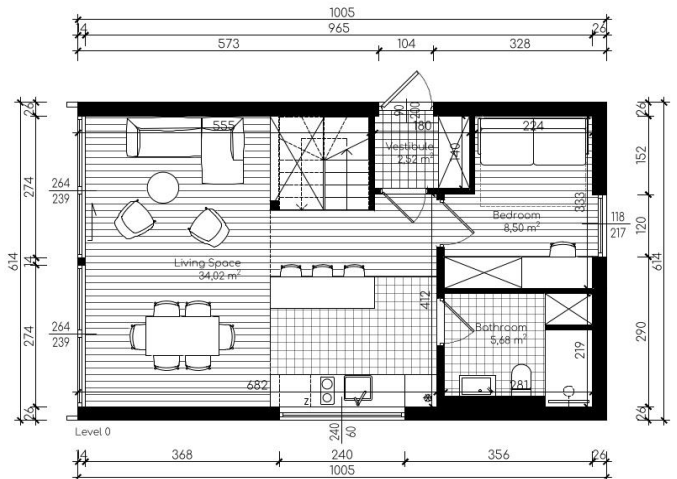
Hauk long

The profile of this house is inspired by the classic form of single-family houses, i.e. a compact body covered with a gable roof, adding idyllicity to any place. The glass gable wall creates a contemporary character, creating a transparent partition in the living room and in the attic. Thanks to its floor-to-ceiling windows, Hyta offers a one-sided view of the landscape.

BUILDING AREA	61,7 m ²
NET AREA	85,02 m ²
HEIGHT	6,52 m
ANGLE OF GABLE ROOF	35°

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 exceptionally large area of the building gives many development opportunities, and the square plan allows for a 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 - where an open space in the large attic is tucked in beneath the roof. The possibility of adding a terrace allows you to extend the relaxation area by additional square meters.



Technological standards *

WALL CONSTRUCTION

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

ELEVATION

HORIZONTAL GRATE

VERTICAL GRATE

WIND BARRIER

CONSTRUCTION

THERMAL INSULATION WITHIN THE STRUCTURE

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
Mineral wool; 12 cm thick; $\lambda = 0.035 \text{ W / mK}$
OSB board; 12 mm thick
Activated foil; weight: 77 g / m²
(C24) Spruce wood; 45x45 mm
Mineral wool; 5 cm thick; $\lambda = 0.033 \text{ W / mK}$

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

ROOF

wooden structure with a suspended ceiling; heat transfer coefficient; $U = 0.15 \text{ W / m}^2\text{k}$

Includes steel guttering and flanges

COVERING

RAFTER

BATTEN

INITIAL COVERING

CONSTRUCTION

THERMAL INSULATION WITHIN THE STRUCTURE

VAPOR INSULATION

INSTALLATION GRID

THERMAL INSULATION WITHIN GRID

FINISH

Seam sheet; color RAL 7016
Trapezoidal sheet; color RAL 9007
Impregnated square (spruce) timber; 40x60 mm
Impregnated square (spruce) timber; 25x50 mm
Highly vapor-permeable membrane; weight: 233 g / m²
(C24) Spruce wood; 22x4.5 cm
Mineral wool; 20 cm thick; $\lambda = 0.033 \text{ W / mK}$
Activated foil; weight: 77 g / m²
(C24) Spruce wood; 45x45 mm
Mineral wool; 20 cm thick; $\lambda = 0.033 \text{ W / mK}$

Drywall; 12.5mm thick
Spruce board panels; 12.5 mm thick
Complete set of steel guttering; color of the roof

GUTTERING, FEATHERING

GROUND FLOOR

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

FINISH

UNDERLAY

SHEATHING

VAPOR INSULATION

GRATE

THERMAL INSULATION WITHIN GRID

CONSTRUCTION

THERMAL INSULATION WITHIN THE STRUCTURE

RODENT PROTECTION SEAL

Spruce floor boards; 28 mm thick
3-layered oak boards; 14 mm thick
Cork; 2 mm thick
OSB board; 22 mm thick
Activated foil; weight: 77 g / m²
Impregnated square (spruce) timber; 45x45 mm
Mineral wool; 5 cm thick; $\lambda = 0.033 \text{ W / mK}$
(C24) Spruce wood; 22x4.5 cm
Mineral wool; 20 cm thick; $\lambda = 0.033 \text{ W / mK}$
Bitumised OSB board; 12 mm thick

CEILING

FINISH

SHEATHING

CONSTRUCTION

FINISH

Spruce board panels; 12.5 mm thick
OSB board; 22 mm thick
(C24) Spruce wood; 22x4.5 cm

Drywall; 12.5mm thick
Spruce board panels; 12.5 mm thick

PARTITION WALL

light technology on a structure made of CW steel profiles

FINISH

CONSTRUCTION

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

JOINERY

WINDOWS

PATIO DOORS

EXTERIOR DOORS

CARPENTRY PACKAGE

INTERIOR DOORS

SCHODY

RAILING

FINISHING STRIPS

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

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

INTERNAL INSTALLATIONS

VENTILATION

SEWEGE

WATER

ELECTRIC

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



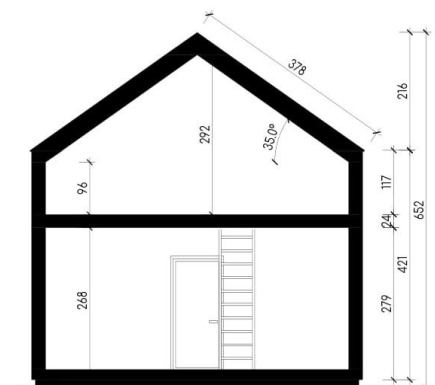
MINERAL WOOL

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.



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