



A MODERN HOUSE WITH A MEZZANINE

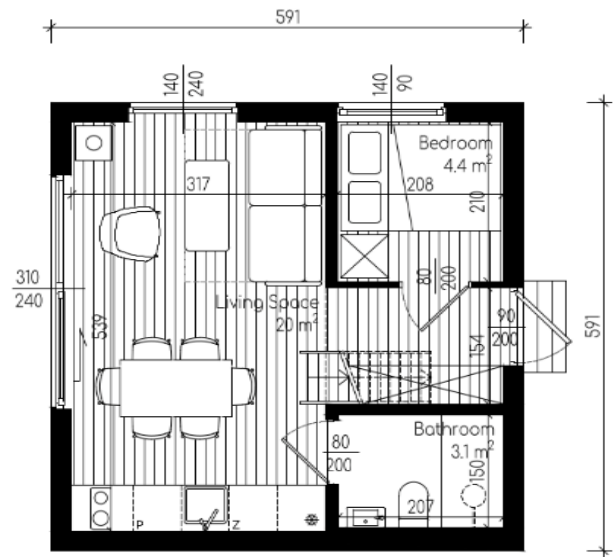
Rogn

Have a rest like never before, in a Hyta house, which oozes relaxation. Let the minimalist form and the blissful sun rays calm you down. Each day spent in this house will allow you to come into close contact with the surrounding nature and bring relaxation to your life. Allow yourself to find space for what you like to do the most. A proposal for lovers of modernism and fans of slow life.

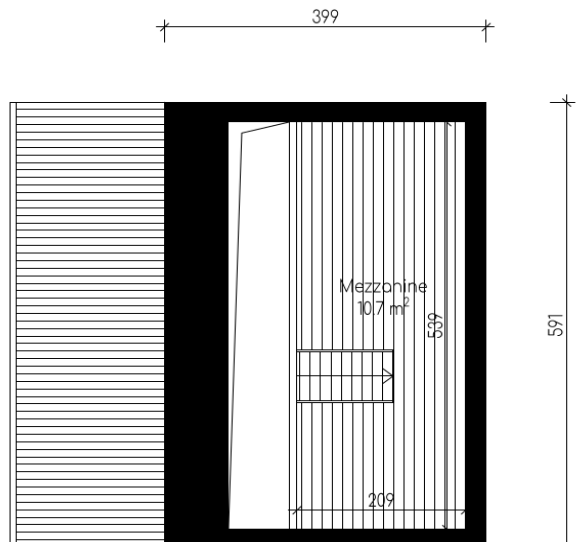
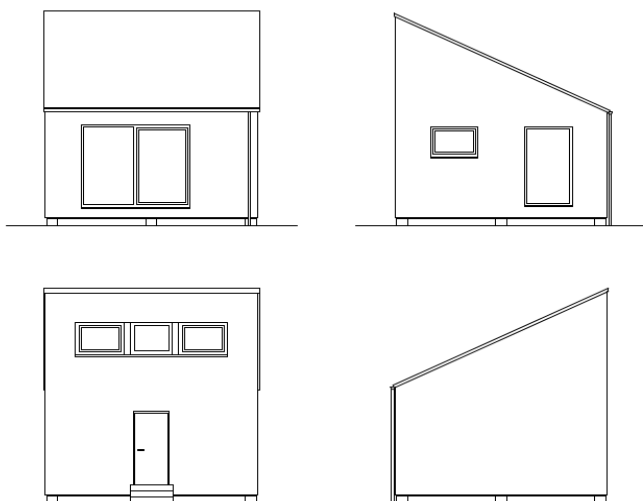
BUILDING AREA	35 m ²
NET AREA	56,76 m ²
HEIGHT	6,20 m
ANGLE OF THE ROOF	25°

At the edge of the forest or the coast?

The simple, cubic shape was cut with a hipped roof, adding a new dimension to this way of living and creating its unique character. The square projection gave us the opportunity to create an attractive functional layout with clear zoning. Large glazing provides adequate lighting for the interior and gives the building's contemporary, but still timeless character. Sunlight falling through them brightens the space, creating an open and bright day zone. The possibility of adding a terrace allows you to enlarge the day zone and organize an additional relaxation zone. The interior is divided into a living area with a living room and an open kitchen, bathroom, bedroom and a spacious mezzanine. Additionally, a comfortable entrance area with a large wardrobe was created.



Ground Floor Plan



Mezzanine Floor Plan

Technological standards *

WALL CONSTRUCTION

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

ELEVATION

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; $\lambda = 0.035 \text{ W} / \text{mK}$
 OSB board; 12 mm thick
 Activated foil; weight: 77 g / m²
 (C24) Spruce wood; 45x45 mm
 Mineral wool; 5 cm thick; $\lambda = 0.033 \text{ W} / \text{mK}$
 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
 Trapezoidal sheet; color RAL 9007

RAFTER

Impregnated square (spruce) timber; 40x60 mm

BATTEN

Impregnated square (spruce) timber; 25x50 mm

INITIAL COVERING

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

CONSTRUCTION

(C24) Spruce wood; 22x4.5 cm

THERMAL INSULATION WITHIN THE ST

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

VAPOR INSULATION

Activated foil; weight: 77 g / m²

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
 Complete set of steel guttering; color of the roof

GUTTERING, FEATHERING

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 / m²

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 STI

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

RODENT PROTECTION SEAL

Bitumised OSB board; 12 mm thick

MEZZANINE

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; $U_w = \text{max. } 0.9 \text{ W} / \text{m}2\text{k}$

Metal & wood; $U_d = \text{max. } 0.96 \text{ W} / \text{m}2\text{k}$

EXTERIOR DOORS

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

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.



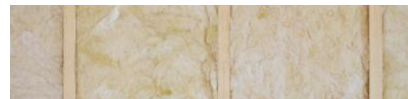
HIGHLY PERMEABLE MEMBRANE

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.



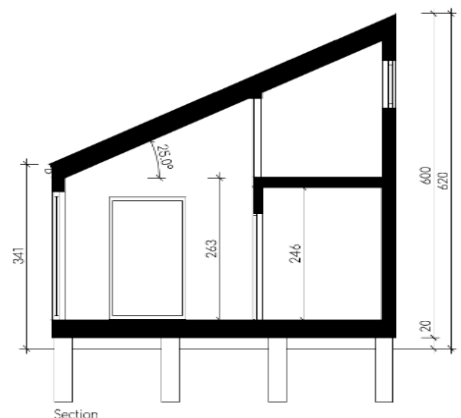
MINERAL WOOL

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.