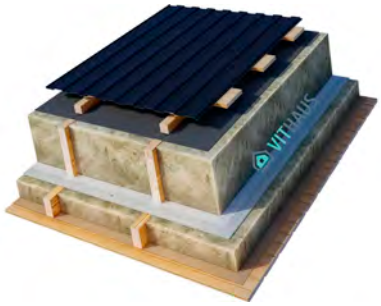
TECHNICAL DATA

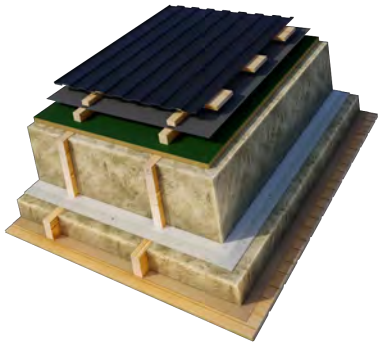
The section of the roof with the interior finishing of the ceiling with wood. Option 1. Class A:



Energy efficiency class A
Roof: 379 mm = 6,79 m² K/W, U = 0,147
Walls: 309 mm = 5,25m² K/W, U = 0,190
Floor: 294 mm = 5,08 m² K/W, U = 0,197
Windows: wooden profile 78 mm, U = 1,00

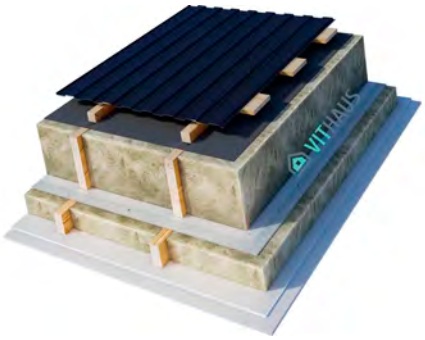
Energy efficiency class A+
Roof: 452 mm = 8,08 м² K/W, U = 0,124
Walls: 309 mm = 5,25 м² K/W, U = 0,190
Floor: 294 mm = 5,08 м² K/W, U = 0,197
Windows: 78 mm U = 1,00

The section of the roof with the interior finishing of the ceiling with wood. Option 1. Class A+:



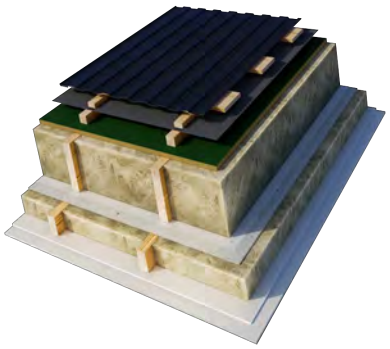
1.1 Roof construction (From outside to inside):
Roofing covering: metal profiled sheets (panels for roofs, color – graphite gray RAL 7024, matte – 20mm.
Roof wooden crate: antiseptic planed board, pine – 20×145 mm.
Counter-bars: antiseptic planed bar, pine – 45×45 mm.
Condensation protection: diffusion membrane for roofing 180 g/m2 – 1 mm.
Reinforced frame: antiseptic planed bar, pine –45×250 mm.

The section of the roof with the interior finishing of the ceiling with paintable drywall . Option 2. Class A:



Central roof panels are reinforced with LVL beams.
Thermal insulation: stone wool 30-35 kg/m3 – 250 mm.
Internal insulation of a frame: vapour barrier film – 1 mm.
Internal insulation of the frame: Gypsum particle board fire resistant, 1200 kg / m3 – 10 mm.
Counter-bars: antiseptic planed bar, pine – 45×95 mm.
Insulation: stone wool 30-35 kg/m3 – 100 mm.
Dust barrier: craft paper 80 g/m2 – 1mm.
Option 1 - Internal surfaces (ceilings): natural wooden – pine cladding, coating – SIKKENS, color – white, – 20×145 mm.
Option 2 - Gypsum particle board 12 mm., drywall for painting-12.5 mm.**1.2 Roof construction (From outside to inside): A+**
Roofing covering: metal profiled sheets (panels for roofs, color – graphite gray RAL 7024, matte – 20mm.
Roof wooden crate: antiseptic planed board, pine – 20×145 mm.
Counter-bars: antiseptic planed bar, pine – 25×45 mm.
Condensation protection: diffusion membrane for roofing 150 g/m2 – 1 mm.
Counter-bars: antiseptic planed bar, pine – 45×45 mm.
Central roof panels are reinforced with LVL beams.
External insulation of the frame: fiberboard – 25 mm.
Reinforced wooden frame: antiseptic planed bar, pine – 45×300 mm.
Thermal insulation: stone wool 30-35 kg/m3 – 300 mm.
Internal insulation of a frame: vapour barrier film – 1 mm.
Internal insulation of the frame: Gypsum particle board fire resistant, 1200 kg /m3– 10 mm.
Counter-bars: antiseptic planed bar 45×95 mm, pine.
Insulation: stone wool 30-35 kg/m3 – 100 mm.
Dust barrier: craft paper 80 g/m2 – 1mm.
Option 1 - Internal surfaces (ceilings: natural wooden – pine cladding, coating – SIKKENS, color – white, – 20×145 mm.
Option 2 - Gypsum particle board 12 mm., drywall for painting-12.5 mm.

The section of the roof with the interior finishing of the ceiling with paintable drywall . Option 2. Class A+:

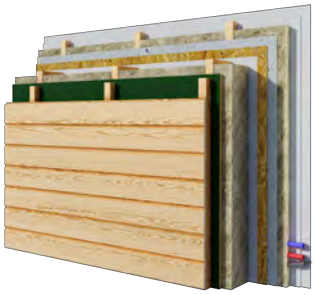


2. Walls construction (From outside to inside) class A/A+

Facade (outer wall surfaces along the roof slope): metal profiled sheet, graphite gray RAL 7024, matt.
Back facade (outer surfaces of the walls across the ridge): planed board; SIKKENS coating, graphite gray - 20 mm.
Antiseptic wooden crate: 20 × 96-145 mm, pine. Antiseptic wooden counter-bar: 25-45x45 mm, pine.
Fiberboard - 25 mm.
Reinforced antiseptic frame: 45 × 195 mm, pine. Insulation: stone wool 45-50 kg / m3 - 200 mm.
Internal insulation of the frame: vapor barrier film.
OSB-3, moisture resistant, for structural rigidity - 12 mm.
Gypsum particle board, fire resistant, 1200kg / m3 - 10 mm.
Antiseptic wooden crate: 45 × 45 mm, pine. Insulation: stone wool 45-50 kg / m3 - 50 mm.
Frame insulation: 80 g / m2 kraft paper.

Section of the exterior walls with interior pine cladding Class A / A+:

Section of the external walls with interior drywall finishing. Class A / A+:



3. Basic construction of interior walls

Finishing:

- Option 1 - imitation of timber / planken - 20x145 mm.
- Option 2 - paintable drywall - 12.5 mm.20×145 mm.

Wooden frame:

- Gypsum particle board, fire resistant, 1200 kg / m3 - 10 mm.
- Reinforced antiseptic frame: 95/145/195 mm, pine.
- Insulation: stone wool 45-50 kg / m3 - 100/150/200 mm.
- Gypsum particle board, fire resistant, 1200 kg / m3 - 10 mm.

Wall finishing:

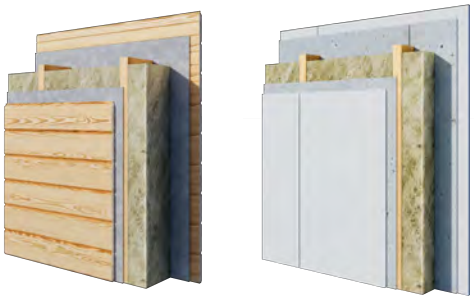
- Option 1 - pine cladding 20 × 145 mm, pine, SIKKENS coating, white color; planken 20 × 145 mm, pine, SIKKENS coating, graphite gray;
- Option 2 - 12 mm gypsum particle board, 12.5 mm paintable drywall

- Finishing in the bathroom: mosaic, white.

Section of interior walls:

Option 1: pine cladding

Option 2: finishing with paintable drywall

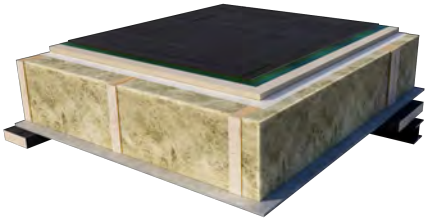


4. Basic floor construction class A/A+

Floor finishing in the rooms:

Option 1 - laminate 32rd class of resistancy, colour selection – 8 mm ; Underlayer for laminate – 4 mm.

The floor section. Class A / A+



Option 2 - parquet board with natural oak coating 12 mm;
underlayer for parquet board 4 mm - 12mm
Finishing in the bathroom: mosaic, black.
Base of the floor is moisture resistant plywood 21 mm ;
Insulation of the frame: vapor barrier – 1 mm.
Reinforced frame: antiseptic planed bar 45×250 mm, pine.
Thermal insulation: cellulose 30-35 kg/m3 – 250 mm.
External insulation of the frame: cement particleboard – 10 mm.
The contour of the elements of the wooden floor platform - 45 mm, pine
Protection from mice is along the contour of the ventilated facade at the bottom .

Can be expanded

Small modular house can become a temporary house during construction of the main house, and then turn into a cozy guest house, or become the main house that can be expanded and developed.

5. Windows and entrance doors:

Wooden frames 78 mm with double sealing contour.
Double-glazed windows filled with argon - 44 mm.
Formula of double-glazed windows in windows: 4ix16x4x16x4i. U = 1.00. Factory painted in graphite gray RAL 7024.
Roto NT fittings. The doors have reinforced hinges and a mortise lock.
Stained glass glazing:
Reinforced double-glazed windows, filled with argon - 44 mm. Formula of double-glazed windows in stained-glass glazing: 6i × 14 × 4 × 14 × 6i tempered glass.

6. Electrics:

Electrical wiring is hidden (in the frame. The cable laying in the walls is made in metal corrugation with PVC insulation.
The wiring is made with a cable FRLS:

– lighting cable Fil Cu 3×1.5 mm;
– sockets cable Fil Cu 3×2.5 mm;
– electrical heating cable Fil Cu 3×4 mm;
– hob and oven cable Fil Cu 5×4 mm.

Socket groups are double-positioned, ceramic based.
Input circuit breaker – three-pole circuit-breaker 25A, category B. Lighting – circuit breakers 10A, household sockets –circuit breakers 16A, on the kitchen stove, sockets in wet areas – differential circuit breakers.
Manufacturer ABB.
- ABB sockets and switches, Levit series, white color.
- Lighting: basic ceiling hanging and mounted lights.

7. Network engineering:

Sewerage: PVC pipes 50/110 mm. Connection with external networks. Water supply: seamless polypropylene pipe Ø20 mm, combined with a flexible attaching pipe (protection against leaks). Connection with external networks.
Heated floor in the bathroom: heating mats with a thermostat Warmehaus.
Ventilation: forced in the bathroom and natural in the kitchen. Ventilation duct 100 mm. Fan riser on the roof.

8. Other:

Sink tap: Grohe BauEdge, chrome.
Wash basin in the bathroom: Kolo furniture set with a drawer
Wall-mounted toilet:
Geberit Duofix Plattenbau toilet installation . Flush button: Geberit Delta-21 with dual flush.
Toilet bowl:Kolo Novo Pro
(Rimfree) seat with microlift, white.
Shower tap: Grohe Grohtherm 800, chrome, with Grohe New Tempesta Cosmopolitan 100 shower set.
Shower room:

- glass shower area 900x900 mm;
- acrylic bath Kolo Comfort XWP3070000, 750 × 1700 mm.

Storage water heater: TERMEX IF 100 V (pro), 100 l.
Kitchen arrangement (for laying communications): outputs of water supply and sewerage; output for the sink; output electric cable for connecting the kitchen hob, refrigerator, kitchen hood.

Additional expenses:

- delivery from the seller's warehouse to the building site (calculated individually);
- installation on the building site;
- crane rental 25 t for installation works;
- installation of the foundation on the site.

Additional production is possible:
porch, stairs, terraces, veranda, sun protection shutters

All wood used for production of the houses goes through technical drying and has humidity of 15-18%.
The elements are covered with antiseptic bioprotectant, and on the end are covered with a special anti-cracking protective agent.