

Estimate developer's state closed Dziewanna 35m2

1 STANZER ROBOT

1.1 Earthworks

- Measurements at foundation excavations in lowland plains³
- Earthworks performed with backhoe excavators with a bucket capacity of 0.25 m³, category III, with transport of the spoil by self-dumping trucks for a distance of up to 1 km
- Earthworks performed with backhoe excavators with a bucket capacity of 0.15 m³, category III, with transport of the spoil by self-dumping trucks for a distance of up to 1 km
- technical expansion of excavations
- Manual profiling and compaction of the subsoil for the construction layers of the pavement according to cat. I-II
- Transport of the aggregate by self-dumping trucks from a distance of 1 km³
- Transportation of the aggregate by self-dumping trucks from a distance of 10 km
- Backfilling linear trenches with vertical walls up to 1.5 m deep and 0.8-1.5 m wide; cat. group I-II

1.2 Foundation plate

- Concrete sleepers for floors and floors - using a concrete pump -B-10
- Horizontal thermal and sound insulation made of polystyrene boards under the 10 cm thick foundation slab - XPS
- Anti-moisture and anti-water insulation made of wide polyethylene foil - x2
- Concreting of the reinforced foundation slab in the small-size system formwork with the transport of concrete with the -B-30 pump
- Small-size system formwork of concrete or reinforced concrete foundation slabs (measurement including side insulation)

1.3 Reinforcement of the foundation slab

- Preparation and assembly of reinforcement of building and structure elements - ribbed bars assumed:
1m² = 12.67 m of the bar, mesh size 15 x 15 cm

1.4 Reinforcement of the rim of the foundation slab

- Preparation and assembly of reinforcement of building and structure elements - smooth bars, slab crown - stirrups
- Preparation and installation of reinforcement of building and structure elements - ribbed bars, slabs - bars

1.5 Neutral insulations

- Thermal and soundproof insulation made of polystyrene boards, vertical, XPS, average thickness 10cm
- Dimpled foil insulation
- Execution of the reinforced layer on the walls m²
- Baumit MosaikPutz thin-layer mosaic plaster - handmade; intermediate layer on the walls
- Baumit MosaikPutz thin-layer mosaic plaster - hand-made on walls
- Insulating foundations with a VOLTEX mat - foundation slabs
- the edge of the foundation slab and vertical insulation from thin concrete to STAHLTON blocks

2 STATE CLOSED ROBOT

2.1 Walls

- Foundation made of STAHLTONISOMUR PLUS blocks
- Moisture insulation of footings made of weldable roofing felt
- insulation for STAHLTON blocks
- Walls of single-storey buildings, up to 4.5 m high and 25 cm thick, made of concrete blocks with lime or cement-lime mortar
- as above, but foundation for the construction of external walls made of STAHLTON ISOMUR PLUS blocks 24X11.3X60 cm

a) Outer wall

- Wooden construction of the dome with metal elements connecting the foundation and skylight keystone. Thermal insulation filling Hempcrete 22 cm, (hempcrete) - light construction material, a mixture of cut stalks of industrial hemp, lime and water /

Steico flex boards made of wood wool thick. 20cm - Insulation made of polyethylene foil attached to a wooden structure - vapor barrier

- Formwork of arched structures m2
- Thermal and sound insulation made of horizontal suprema boards nailed to the grid from the bottom of the wooden external walls - inside

b) Internal partition wall "14"

- Skeleton structures - columns of external and internal walls up to 100 mm wide
- analogy: filling the frame structure with STEICOflex wood wool pieces 10cmX2 thick

2.2 Ceiling/covering over rooms

- Wooden ceilings - ceiling beams up to 240 mm wide
- Blank floor made of 25 mm MFP chipboards
- Floor panels
- analogy: Blank floor made of MFP 12 mm chipboards
- soffit from the bottom of the ceiling
- Execution of clay plasters with a thickness of 2 cm
- Execution and assembly of wooden stairs according to an individual design set.

2.3 Joinery and metalwork

a) Window joinery

- Installation of turn and tilt-and-turn windows made of PVC with processing of filling with an area of up to 1.5 m²
- Installation of turn and tilt-and-turn windows made of PVC with processing of filling with an area of over 2.5 m²
- Internal window sills made of 3 cm thick conglomerate
- External window sills made of coated sheet thickness. 0.6mm

b) Door joinery

- Exterior doors made of aluminum and glass, the so-called warm.
- Single-leaf paneled interior door, adjustable wooden door frame
- Internal single-leaf bathroom panel doors, adjustable wooden door frame

c) External jambs of windows and doors

- Execution of external flashings securing windows and exterior doors made of 20mm waterproof plywood, in accordance with the executive drawings
- Thermal insulation made of Steico flex board made of wood wool with a thickness of <dia.> 5cm jambs part. upper
- Pre-covering foils (FWK) laid on boarding - wind insulation
- Flashings made of coated sheet with a width of over 25 cm
- Flashings made of coated sheet with a width of up to 25 cm

3. INTERNAL FINISHING WORKS

3.1 Substrates and floors

a) Ground floor floor on the ground

- Floor panels
- Multi-colored floors made of GRES stoneware tiles, dim. 30x30 cm on adhesive mortar with a layer thickness of 5 mm in rooms with an area of up to 10 m²
- Preparation of the base for floor coverings - double priming of the base for cement adhesives
- Leveling layers for floors made of cement mortar, 20 mm thick, troweled smooth
- Leveling layers under cement mortar floors - an addition or deduction for a change in thickness by 10 mm
- Anti-moisture and anti-water insulation made of wide polyethylene foil - separating foil
- Horizontal thermal and sound insulation made of expanded polystyrene boards under the 4 cm thick foundation plate - EPS 200
- Thermal and sound insulation made of polystyrene boards, horizontal under the foundation slab, 4 cm thick - EPS 200 - second layer
- Anti-moisture and anti-water insulation made of wide polyethylene foil - x2

3.2 Wall and ceiling finishing works

- Internal plasters of external walls and ceilings
Execution of clay plasters 2 cm thick
- Internal plasters of partition walls and ceilings
Execution of clay plasters 2 cm thick

3.3 Ceramic coverings

- Substrate preparation for wall cladding - double priming of the substrate for cement adhesives
- Wall cladding made of regular-shaped artificial stone tiles arranged in patterns on a thin-layer adhesive mortar; tiles measuring 20x30 cm

4 ELEVATIONS

4.1 Plinth

- Making a reinforced layer on the walls
- Thin-layer mosaic plaster, e.g. Baunit MosaikPutz - hand-made; intermediate layer on the walls
- Thin-layer mosaic plaster, e.g. Baunit MosaikPutz - hand-made on the walls

4.2 External walls with shingles

- Thermal and sound insulation made of horizontal suprema boards nailed to the grate from the bottom
- - As above, but Steico flex boards made of wood wool, 4 cm thick, fixed to the wooden structure of external walls
- Pre-covering foils (FWK) laid on boarding - wind insulation
- Lathing - batten spacing 25 cm
- Sheathing of stud walls made of 21mm plywood (MPF, OSB board)
- Cut shingles 10 cm wide - two-layer coverage, shingles 40 cm long
- as above, but Cedral tiles
- Insulation of horizontal surfaces with SWELLTITE membranes laid on ceilings, terraces, etc. fixed with glue with lubrication of the entire surface
- as above, but a strip of EPDM roofing membrane (color compatible with Cedral tiles)

- Flashings made of coated sheet with a width of up to 25 cm
- Flashings made of coated sheet with an expanded width of over 25

5. SKYLIGHT

- Aluminum roof skylight $r=40$ with a system base (base height min. 30 cm above the finished roof slope)

6. INSTALLATIONS

Water, sewage and heating installation

6.1 Internal water and sewage system

- Execution of the water and sewage approach, plastic and copper
- Execution of a sewage outlet
- Water risers
- Installation of concealed valves
- Installation of a linear drain
- Comprehensive hydraulic installation

6.2 Heating installation

- Ground source heat pump
- Vertical drilling
- Hydraulic assembly components

6.3 Electrical installation

- electrical installation
- internet installation
- television installation
- filling cans
- house grounding