Danish Refugee Council

Marneuli

Architectural project

Individual House (8X10m)



2019

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DANISH REFUGEE COUNCIL

Danish Refugee Council

Individual house
(8X10m)

იალუჯა

Project address:

Georgia,
Marneuli

Stage:
Architectural project

CONTENT

Format A - 3

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Explanation Letter

The residential house represented in the project is a one-storey solid building with a floor raised on 1.2 meters above the ground level. The house has the following areas:

- Common room
- Kitchen
- Bedrooms
- Bathroom
- Corridor
- Balconies

The height of the floor from the floor to the ceiling is 2.8 meters. The walls are made of reinforced three-layer masonry (sandwich structure) namely the external layer of ceramic perforated bricks, the middle layer of thermal insulation of XPX slabs and the small wall pumice blocks inside. The bearing structure of the additional building is the framed structure of reinforced concrete slabs consisting of walls with reinforced inserts (cores, belts) monolith reinforced concrete slab and a reinforced concrete belt binding at the ceiling level, in the construction of which the reinforced bearing walls are included. The reinforced cores are concreted in parallel to the construction of reinforced bearing walls.

The partitions are made from the reinforced small wall pumice blocks.

The floors in the sanitary facilities will be tiled and in the rooms, they will be made of laminated parquet. The insulation of the floor will be completed with XPS slabs, while the ceiling will be insulated with fiberglass. On the ceiling at the level of the attic, there will be installed a rough-timber boarding. The hung ceiling of the bathroom will be made with plastic boards, and in the rooms with gypsum boards.

The bearing structure of the roof is wooden, and the roofing is made of painted metal tiles.

The windows are made from PVC profiles with double glazing. The entrance doors are stainless steel, bathroom doors are PVC, and the doors in the living rooms are wooden (MDF). External stairs will be made of mosaic stainless steel I-beams.

The concrete walkways will be installed around the building. The internal networks of power supply, sewerage, and water supply will be provided to the building, which will be connected to external bulk power system networks.

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Explanatory Letter

Format A - 3

Textures on the Facade



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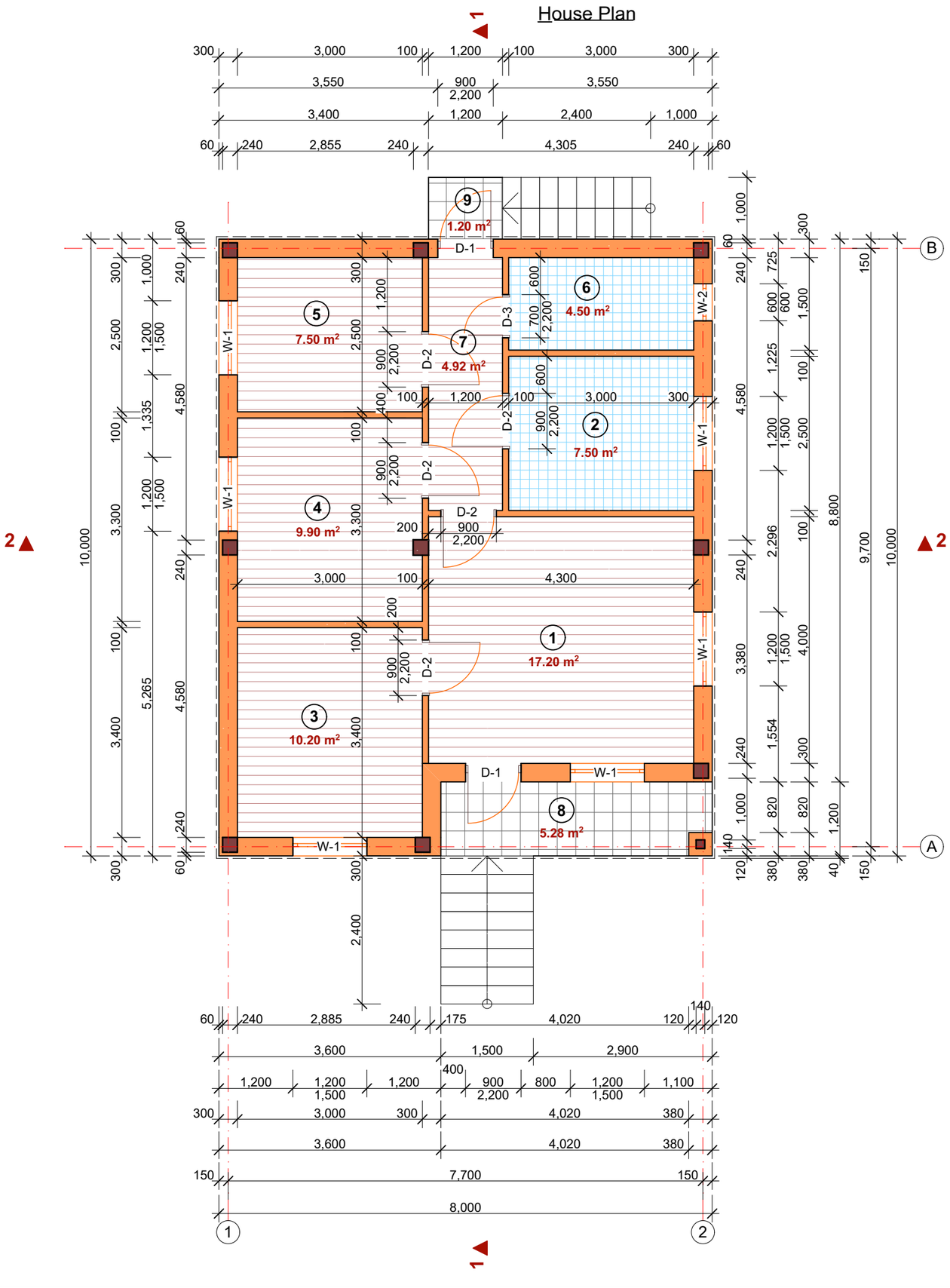
Stage:
Architectural project

Textures on the facade

Format A - 3

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House Plan



Legend:

1. Common room
2. Kitchen
3. Bedroom
4. Bedroom
5. Bedroom
6. WC
7. Corridor
8. Balcony
9. Balcony

Total area - 68.2 m2

Summer square - 6.48 m2

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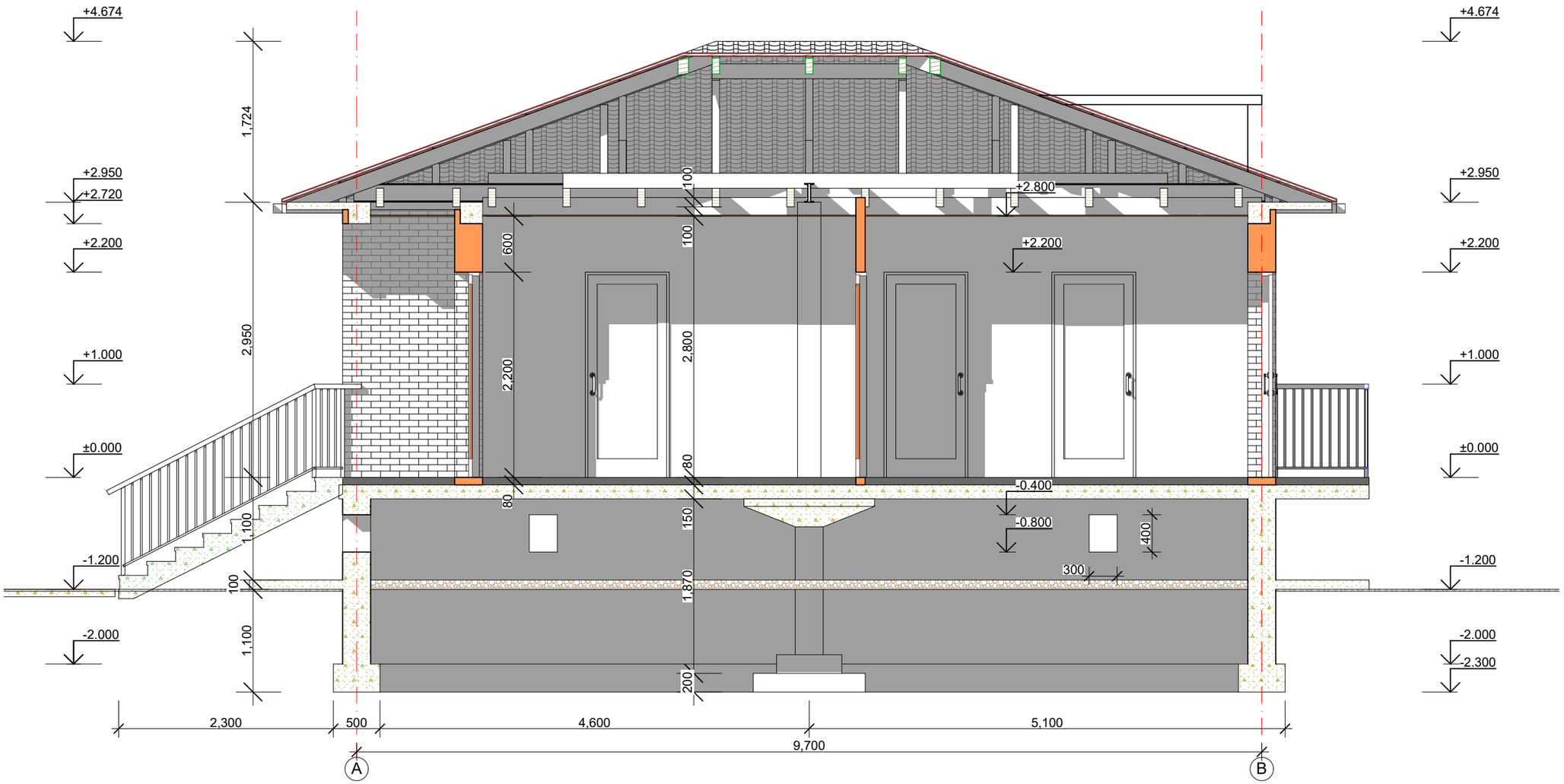
Stage:
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House plan

Format A - 3

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Section 1-1



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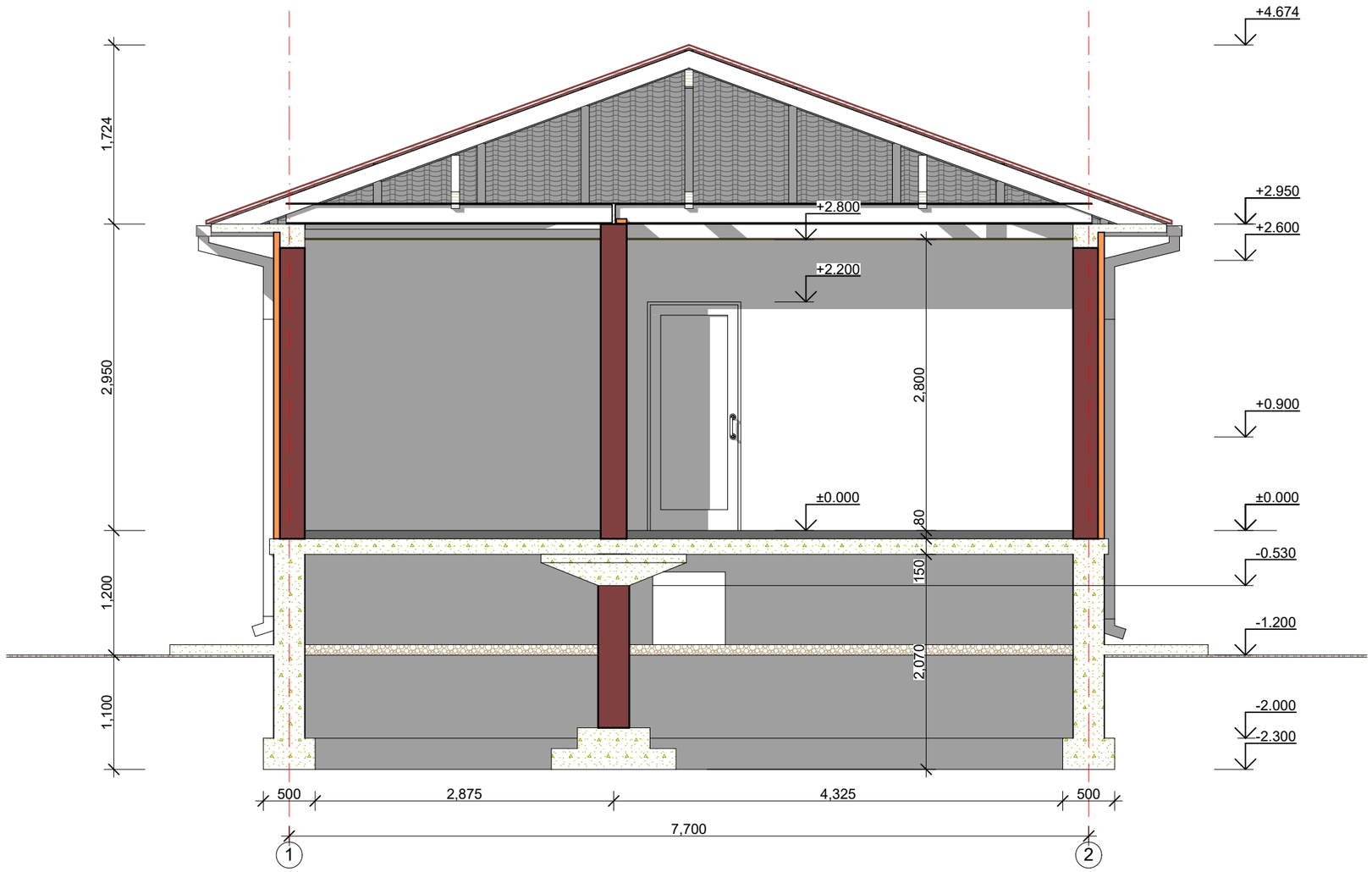
Stage:
Architectural project

Section 1-1

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Section 2-2



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ინდივიდუალური საცხოვრებელი სახლი (8X10მ)

Individual house (8X10m)

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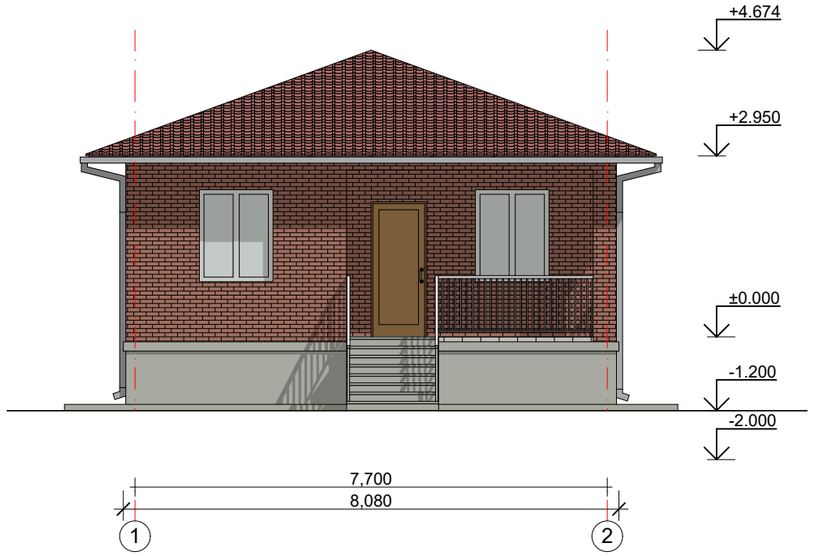
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Architectural project

Section 2-2

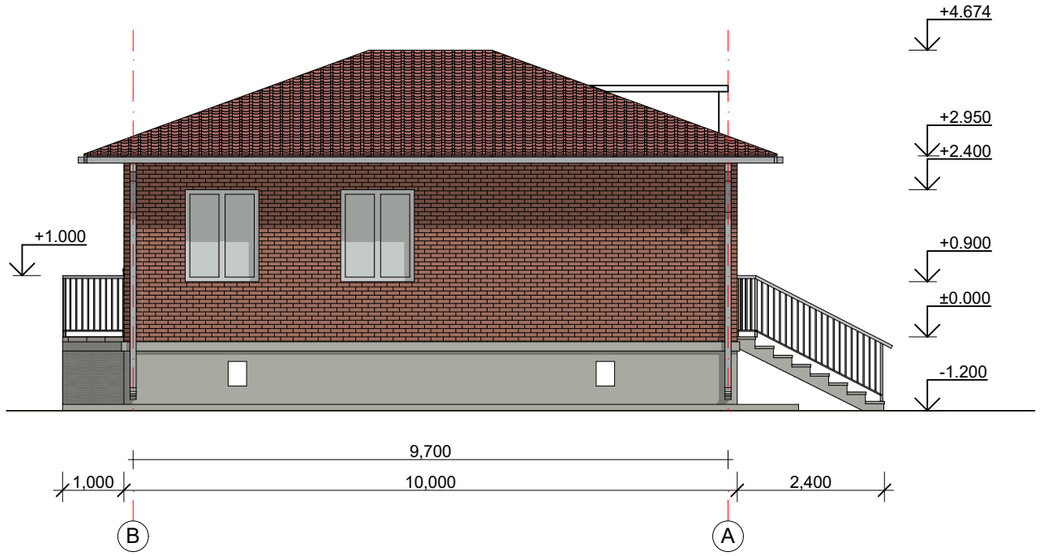
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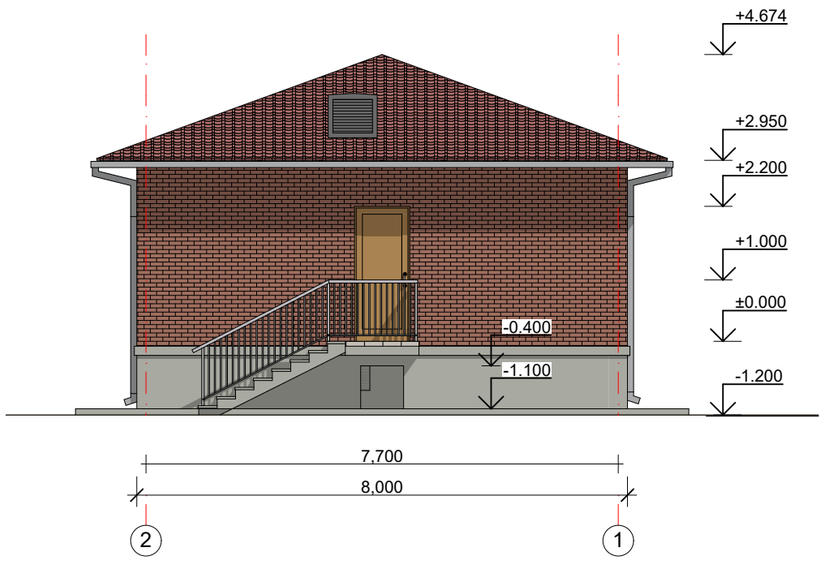
Facade 1-2



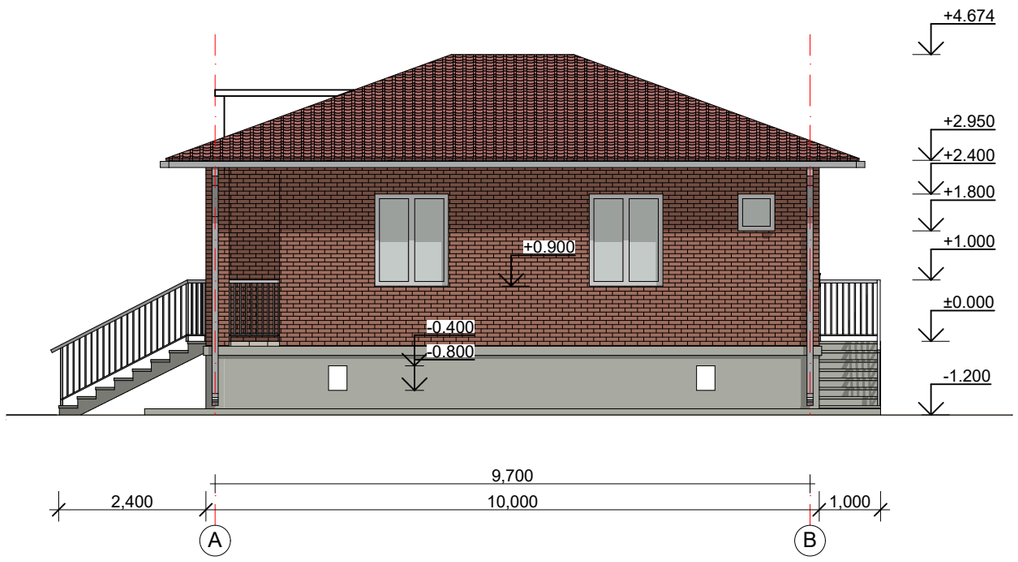
Facade B-A



Facade 2-1



Facade A-B



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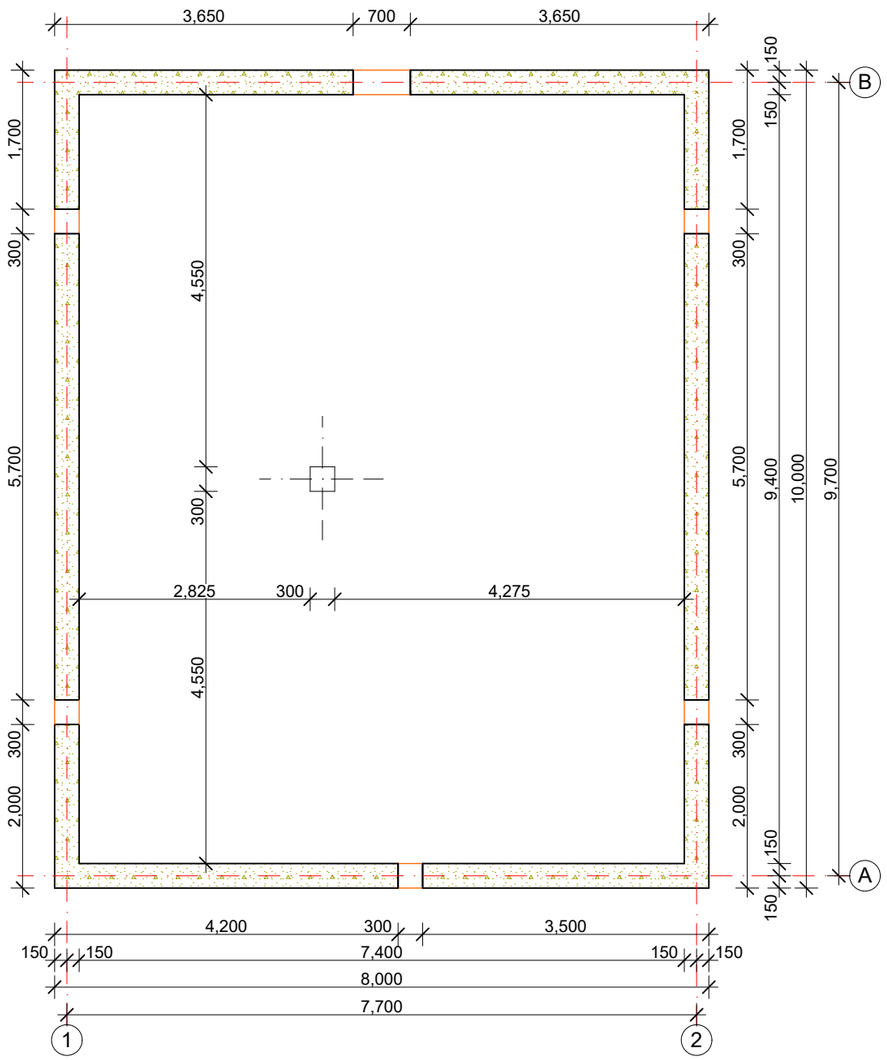
Stage:
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Facads

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Basement Plan



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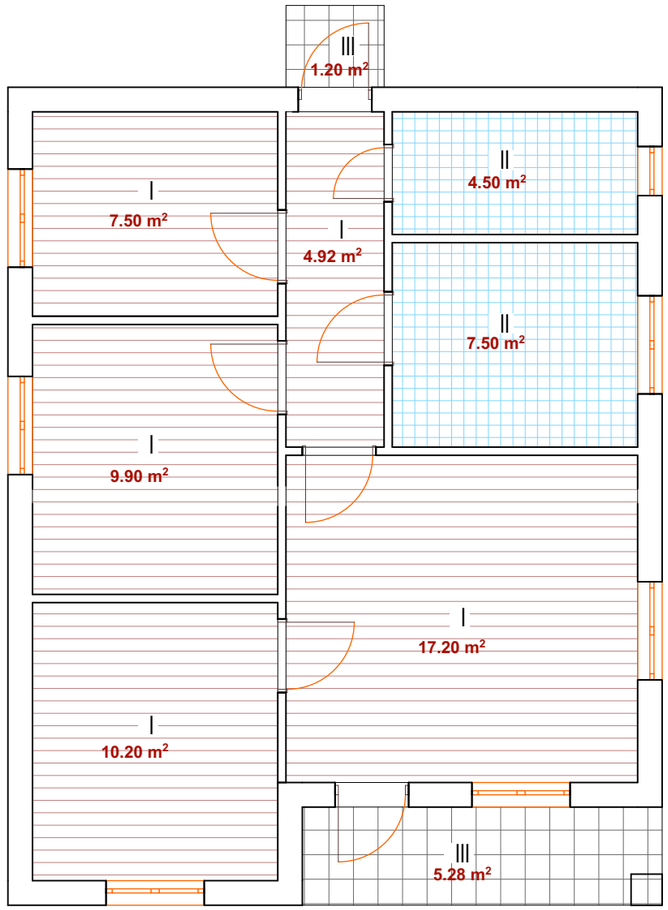
Stage:
Architectural project

Basement plan

Format A - 3

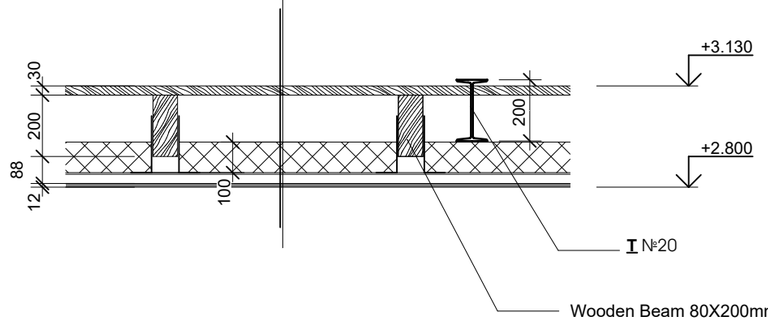
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Floor types



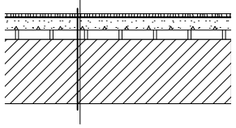
Ceiling Structure

Wooden boarding - 30mm
Fiberglass insulation 10cm
Fixation structure of gypsum boards
Gypsum board 12 mm (plastic)



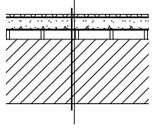
I

Laminated flooring 10 mm
Underlining for laminate
Reinforced levelling of sand and cement 40 mm
XPS tile 30mm
Floor slabs



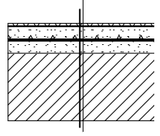
II

Ceramic tiles 8mm
Sand-cement base 4 cm
XPS tile 3 cm
Two layers of Lincrome
Floor slabs



III

Ceramic tiles 8 mm
Cemend-sand base 4 cm
Floor slabs



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ტიპები
Floor types

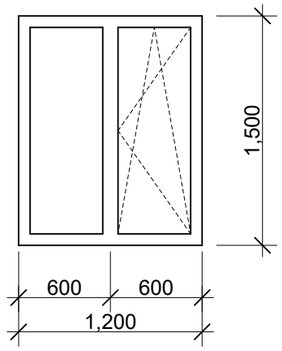
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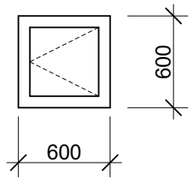
Doors and windows

PVC windows

W-1



W-2

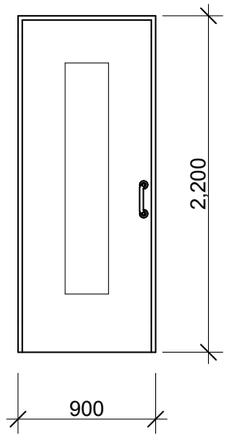


Specification

Mark	Quantity	mm	mm	m2	∑ м2
D-1	2	900	2200	1.98	3.96
D-2	5	900	2200	1.98	9.9
D-3	1	700	2200	1.54	1.54
W-1	6	1200	1500	1.8	10.8
W-2	1	600	600	0.36	0.36

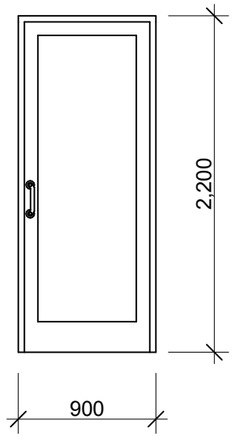
Steel door

D-1



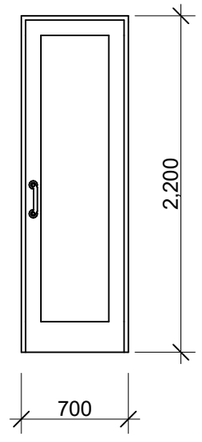
Wooden door (MDF)

D-2

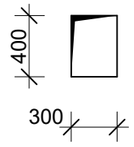


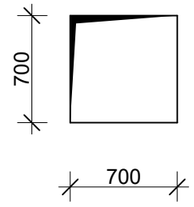
PVC door

D-3



Apertures in the basement





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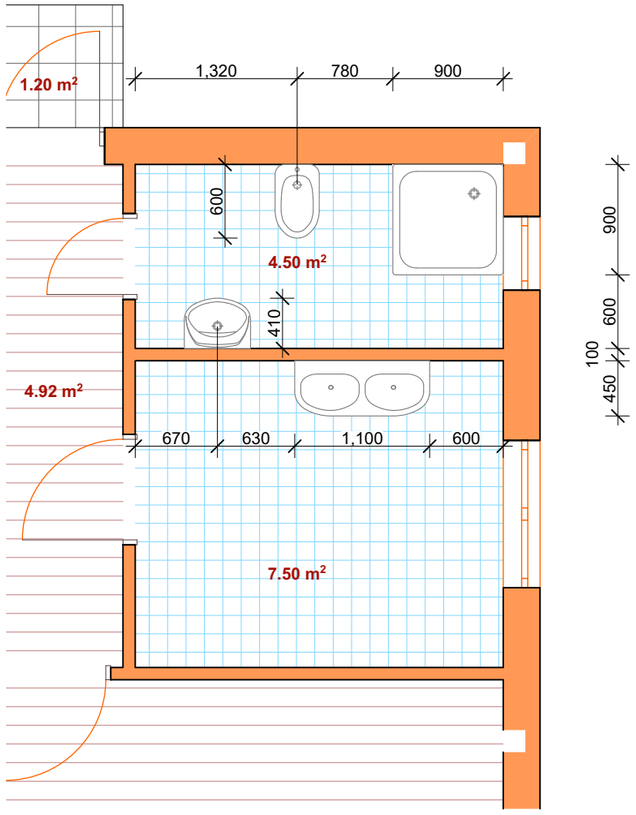
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Doors and windows

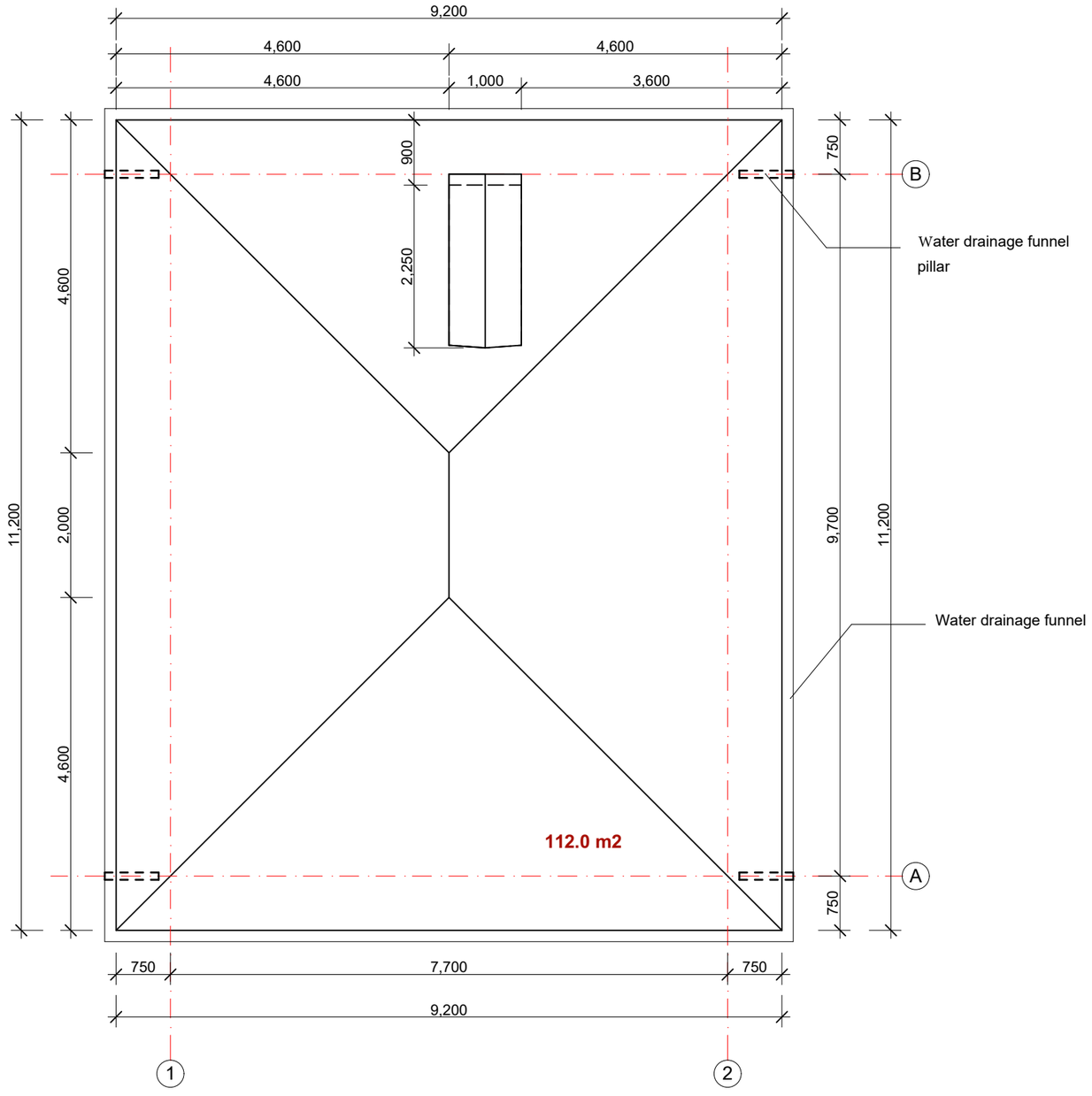
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Bathroom and Kitchen Plan



Roof Plan



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Roof plan

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Organization of the Building Site

The plan of organization of the building site is drafted under applicable construction rules and standards of Georgia. The location of the plot of land for the construction site is Iaghluja, Marneuli Municipality.

The building is a one-storey solid structure. The structures of the building are made of the following materials:

- Walls - small wall block masonry, XPS tiles with heat insulation
- Cores - concrete reinforcement
- Belt- concrete reinforcement
- Slab floor - concrete reinforcement
- Roof - sloped roof, metal

While implementing building works it is obligatory to comply with the following fire and safety regulations:

- The building should be fenced from the two adjacent public zone
- Forbidding the entrance of unauthorized personnel to the construction sit
- Workers and serving staff should be instructed on fire and safety regulations when implementing building works
- The working area should be supplied with fire prevention facilities

Storage of materials should take place considering their technological requirements. Preparation works include the following:

- Cleaning of the building area
- Fencing of the area
- Installation of the temporary power supply network
- Installation of the temporary water supply network
- The main electricity box should be in a closed condition, it is prohibited to use uncoated wires

Construction standards should be observed in compliance with 'Construction Directives and Rules' and Technical Regulations on Safety of Buildings and Structures.

The construction should be implemented taking into account measures of the environment protection.

მშენებლობის კალენდარული გრაფიკი

Schedule of the Construction Works

№	სამუშაოს აღწერილობა / Scope of Work		6 თვე / 6 months																	
			I			II			III			IV			V			VI		
1	საძირკვლის სამუშაოები	Foundation works	■	■	■															
2	ზეძირკვლის სამუშაოები	Basement works			■	■														
3	გადახურვის რკინაბეტონის ფილის დაბეტონება	Construcion of walls and columns					■	■												
4	კედლებისა და სვეტების ამოყვანა	Concrete casting of reinforced concrete							■	■	■									
5	შენობის გადახურვა	Roofing of the building										■								
6	კედლების შელესვა	Wall Plastering									■	■	■							
7	მოვირკეთებითი სამუშაოები	Finishing works											■	■	■	■	■			
8	ელსამონტაჟო სამუშაოები	Electrical mounting works									■				■	■	■	■	■	
9	სან-ტექნიკური სამუშაოები	Sanitary Engineering Works		■								■	■	■	■	■	■	■	■	
10	ეზოს კეთილმოწყობის სამუშაოები	Arrangement of the yard											■	■	■	■	■	■	■	
11	ტერიტორიის დასუფთავება	Cleaning of the area																		■

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Calendar chart

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