ENERGY PERFORMANCE CERTIFICATE

Address (location) of the building:	K	yiv
Identifier of the construction object	i.	
Information about the certification of	object a	new building
Functional purpose and building na	me: re	sidential house BP-75 (arch. Lakiev A.)
Information about the construction	of the building	
Total area, (m ²):	63.75	
Total volume, (m ³):	191.25	DH-Wood 75
Heated area, (m ²):	63.75	and the second s
Heated volume, (m ³):	191.25	
Number of floors:	1	
Year of putting into operation:	A new building. P	roject.
Number of entrances or entrances:	2	



Primary energy use:



Type of enclosing structure	Thermal resista of the enclosing stru		
	Determined as the results of certification	Minimum requirements established for energy efficiency	Area A, m ²
External walls	4.98	4.0	91.27
Roofs, flat roofs and floors in contact with outdoor airs	5.95	7.0	63.75
Covering heated attics		6.0	
Covering of unheated attics	=2	6.0	-
Floors over unheated and closed spaces	=2	5.0	-
Transparent building elements	0.99	0.9	10.88
External doors	1.17	0.7	4.18

I. Characteristics of the enclosing structures of the building

State of enclosing structures

External walls:

The walls have a single-layer construction: a metal frame made of a galvanized C-shaped profile 2 mm thick 150x50 mm, integrated into a layer of HIRSCH POROZELL EPS-GRAPHITE insulation 240 mm thick with plastering outside and inside with a thickness of 5 mm and 3 mm, respectively.

Window and balcony units:

Metal-plastic windows (Epsilon OPTIMA-70), with two-chamber energy-saving double-glazed windows (4i-16Ar-4-16Ar-4i) with a warm remote frame.

External doors:

Metal-plastic doors (Epsilon T 104/70), with two-chamber energy-saving double-glazed window (4i-16Ar-4-16Ar-4i) with a warm remote frame.

Roof:

A metal frame made of a galvanized C-shaped profile 2 mm thick 150x50 mm is used as a combined roofing, which is integrated into a 300 mm layer of HIRSCH POROZELL EPS-GRAPHITE insulation.

Basement:

The floor structure is arranged on a caisson-slab foundation on the ground, using the insulated swedish floor slab technology.

There is no basement/underground.

II. Indicators of energy efficiency and actual energy consumption of the building

Indicators of energy performance of the building

	The value of the building's energy efficiency indicator		
Name of the building's energy efficiency indicator	Determined by the results of certification	Minimum requirements are established	
Energy need kWh/(m ² ·year)	62.65		
Energy use kWh/(m ² ·year)	26.00	120.00	
Primary energy use kWh/(m ² ·year)	164.55		
Greenhouse gas emissions (kg/m ²)	27.64		

Indicators of the building's energy use

Type of the energy use	Annual energy usage			
	According to the relevant accounting devices		By the results of certification	
	thous. kWh	kWh/m² [kWh/m³]	thous. kWh	kWh/m² [kWh/m³]
Types of energy usage, which determine the building's energy performance class				
Energy use for heating	2 R	ĕ	1.21	18.98
Energy use for cooling	-	-	0.45	7.04
Energy use for domestic hot water	-	-	1.7	26.70
Energy use for ventilation		<u>.</u>	0.39	6.04
Energy use for lighting	۵	-	0.45	7.06
TOTAL:	0	0.00	4.2	65.82

Diagram of the building's annual energy usage



III. Characteristics of the building's engineering systems

Heating systems

The premises of a residential building are heated using an air-to-air heat pump with an estimated conversion factor of 300%.

Cooling, conditioning, ventilation systems

Cooling of the premises of a residential building is carried out with the help of an air-to-air heat pump.

The ventilation of the premises is forced mechanical with the help of a decentralized supply and exhaust unit with a recuperation unit with a PRANA 200G ECO ENERGY rotary heat exchanger, power 4..68 W*h, efficiency up to 96%.

Systems of hot water supply

Hot water is prepared in a flow-type boiler.

Lighting systems

The lighting of the premises is arranged with the help of a60 track systems of point technical lighting. The source of illumination is LED.

Electricity is supplied from the general city power grid.

ENERGY PERFORMANCE CERTIFICATE

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Identifier of the construction object:	
Information about the certification object	a new building
Functional purpose and building name:	residential house BP-75 (arch. Lakiev A.)

Information about the construction of the building				
Heated area, (m ²):	63.75	Heated volume, (m ³):	191.25	
Number of floors:	1	Year of putting into operation:	A new building. Project.	



