

Architectural competition to create a schematic design for a new building of the Karin Dom Foundation.

APPROXIMATA VALUE FOR IMPLEMENTATION

N	EXPENDITURE CATEGORY	AMOUNTS	COST	%
1	SOIL AND EXCAVATORS	3000M3	32.114,00	2
2	REINFORCED CONCRETE	4.839,19	401.425,00	25
3	BASEMENT CONCTRETE	1.365,48	48.171,00	3
4	WALLS	1880M2	112.399,00	7
5	INSULATIONS	1880M2	32.114,00	2
6	FLOORS	2370M2	192.684,00	12
7	PLASTER COLORS	1880M2	176.627,00	11
8	WINDOWS	850M2	80.285,00	5
9	ROOF	700M2	48.171,00	3
10	METAL CONSTRUCTION		32.114,00	2
11	HYDRAULIC INSTALLATION	=	80.285,00	5
12	ELECTRIC INSTALLATION		80.285,00	5
13	MECHANICAL AND OTHER EQUIPMENT	-	240.855,00	15
14	SURROUNDING SPACE	1200M2	48.171,00	3
TOTAL COST			1605700	100

The building main structure is from reinforced concrete that comply with the architectural synthesis of the proposal and will be designed according to the ongoing technical rules and needs of usage.

Most of the material is in a radius of 100km from the city of Varna in order to eliminate the co2 footprint and also be beneficial to the local economy.

To reduce the energy consumption of the building external insulation is applied. The microclimate of the building and its surroundings improved highly from the green roof, cross ventilation and lighting from the correct opening of the building to North to South. Moreover, the use of wooden shaders at east and west provide the appropriate environment of the inside spaces. The natural ventilation of the building and the use of thermal mass of the building material can reduce energy consumption and depadance in technical means.