

Explanatory note

Architectural and urban planning solution:

The presented site has no distinct features neither in terms of location in the urban structure, nor from the point view of the features of the relief. It is surrounded on three sides by identical buildings with a similar architectural solution and is located in the depths of the buildings. Almost all the area of a given plot is covered with green spaces, which must be used in the design solution. Given the whole context, the new volume of the children's center should maximize to preserve the existing green spaces, and in size - to correspond to the urban units surrounding it.

Architectural and artistic solution:

The main criterion in the search for an architectural and artistic image was the creation of an emotionally expressive image of a new building that stands out from the background contextual environment. The volume should be vivid and memorable, possibly including associative images in the minds of visitors. The new building is deformed and bent in the shape of the border of the allotted area. The green area that we use for construction, offset by the use of the upper floor as a greenhouse where exotic plants will grow. Accordingly, the pitched roof is made completely glazed double-glazed windows by Velux to ensure photosynthesis of plants. It is important to note the solution to the facades. The eastern facade is completely made of glass panels with floor separation. In addition, each plane of the translucent coating has a system of vertical tinted glass panels, which they will provide the necessary light transmission, but will help protect the interior from excessive heating in the summer. There are also exits on each floor. to the balcony, randomly placed relative to each other. Three other facades have a broken shape, deforming and bending as if "pushing back" the existing greenery and "capturing" a new space. Chaotic on their surface volumes of window blocks are located, which are essentially balconies in the body of the building. The building seems to show its "needles" that absolutely do not inspire inner feeling of anxiety.

All these artistic decisions are based on visual images that I tried to lay in the building of the new children's center. Namely, these so-called the "needles" of the window blocks, the balconies of the "paws" and the vertical glass panels of the "hairs" deployed at different angles are associated with me as the image of a hedgehog, found a secluded place in a pocket surrounded by buildings and drowning in greenery. This is certainly a positive emotional image for children who came to this child Center.

Architectural planning solution:

Four-storey building with underground storey parking for visitors for 20 cars. The first floor has three entrances and is accordingly divided into three independent blocks: Montessori center, medical center and reception (the main unit serving the main functional structures of the new children's center). All floors are connected. stairs and elevator. The rest of the set of functional structures and rooms is well shown on the diagrams and plans (see tablet). Each structure is placed within one floor. The top floor is a greenhouse for relaxation and recreation. It also compensates for that part of the green spaces that had to occupy a new building.

Constructive solution:

The structural design of the building is monolithic with a grid of columns inside and load-bearing outer walls. Accordingly, the internal layout is free with partitions from drywall or aerated concrete blocks. The roof structure is rafter made of steel profiles of rectangular cross section with support on the bearing walls.

Main characteristics of the building:

The area occupied by the building is 511.37 m²

The total area of the aerial part is 2480.58 m²

The total area of the underground part is 595.08 m²

Total volume-8974.74 m³

Area of improvement-994.15m²

Number of parking spaces -20