

„Modules as the basis of applied forms in urban area.”

The PhD paper shows analysis of urban areas and zones between blocks of flats. I investigated relationship in semiprivate and public zones. I mainly put my focus on humans and their social needs. I checked how the spaces influence human behavior. When the space is antisocial it does not create opportunities for community relations, it is used only for necessary activities like going to school or work. If the public zones are good quality people spend more time there. It gives a chance to create relationship between residents. High quality of the spaces increases chance of growing up a community on many different levels.

The understanding of human's needs helps to discover the role of architecture as a space serving its residents. The space around blocks of flats is one of many unique areas in a city. It is used by neighbors, friends and local residents who know each other. Thanks to that they treat this space as another part of their homes. If this space will be interesting then more people will spend time outside.

I designed a system of a few types of modular forms. These forms are prepared for a very easy production process. Each element is taken out of a full form which can be used for mass production. I suggest making these forms of a synthetic material which can be painted in any color. This synthetic material's resistance is very high. Sun, water and high temperature not destroy surface so it can be use outside. Each module is connected with a special metal clips. The ends of each module are the same so they can be connected with other modules. Moreover, it is possible to create new forms with the same type of ends.

Each module is empty inside so is very light. It can be taken by users so everyone can create their own sets of modular forms. Modules can be used in many different environments. When modules are connected in regular sets then will fit in geometric spaces. Moreover, the modules can be connected in irregular, long and linear forms. These types of sets are the best for spaces with trees because they look like abstractive line in natural garden.

The system of modular forms is dedicated to everyone. People any age may find in these forms something that fits their needs. Children can use it to have fun because these elements have round edges and are safe. These forms can be partially put in the ground and be used as vertical small fences surrounding playgrounds. Adults and elders can use them as benches which are located at different angles and different configurations. These creates possibilities for going outside and meeting with friends. People interested in gardening can use them as pots for vegetables and plants. All of it perfectly blends in a city architecture.

The PhD tries to solve a problem of unsatisfactory quality level of spaces between blocks of flats. The suggested solution is flexible and universal and can be fused with other solutions which have similar goal.