School in Calcutta, India

An educational institution with friendly design.

Head Abin Design Studio Abin Chaudhuri told BERLOGOS the concept and the process of creating a unique school. The idea of design of the facade of the school came to us when the construction of two academic units have conducted. Overall, they had fairly generic - 6 floors with classrooms, laboratories and other facilities located on the periphery around a central courtyard. Work and create a school had to strictly defined conditions, so the design had to be developed in terms of ease of movement, move between the blocks, ventilation, providing classes and so on. Since the school building is located in the New Town in Kolkata, with its simple buildings, it was necessary to give the brightness of the building for the manifestation of identity and creating a colorful architectural accent. The area of the whole plot intended for the construction of school blocks - 8093.72 square meters. The two blocks are placed at a slight angle to each other. In addition to the educational institutions in the territory and there is a swimming pool.
The main objective was to give individual schools, so we designed a 'wrapping' buildings around the screen with images of graphic symbols, letters and numbers. Children of primary school age are simple lines like the letters of the alphabet, but eventually some abstraction become quite concrete shape and meaning - alpha, gamma, pi. Consequently, such an unusual facade stands out among the mass of undistinguished buildings.
488 panels made of plastic with glass fiber (FRP), a size of 3.2 square meters. m covers each of the two academic blocks. The design of the 13 other panels use a combination of uppercase and lowercase letters, numbers and symbols. The elements are arranged in different directions in order to achieve the effect of chance and rhythm. Structural plates were designed separately from the bulk of the structure, but their dimensions were verified as accurate as possible, and the number of finished panels allowed to cover the entire surface of the symmetrical rectangular box. In order to understand and decide on the ratio panels, walls and windows of the screen, has been made a model of the building on a smaller scale. So pleasant was created for the perception of the steel frame to align the FRP-panel. To attach panels weighing 70 kg to the supporting structure were designed fasteners with integrated steel Z-profiles.

The process of working on the facade system - the creation of a sample module and fixing parts, production, delivery, installation, registration and cleaning - it took 4 months. However, it was worth it - the effect was exactly what we expected! Functionally, the two blocks of the school should be linked and well combined, but apart from them there is a third small block of service that "sticking out like a sore thumb would be" if it were not. It was decorated appropriately. Here we have used all the same materials and construction, but the decor provides a simple vertical aluminum fins. Outwardly, this block does not look appealing either, nor brave, but he is thin and aesthetically pleasing thanks to its visual neutrality.

We did not want to deprive students habits move freely from one room to another, so organized various levels, which, thanks to the visual communication traffic in the corridors They merge into one whole space, smoothly passing in the courtyard. Atria no sharp angles inherent premises in the form of a hard square-free and resemble a three-dimensional sculptural form. The use of bright colors in the decor and plants create a pleasant atmosphere in the key area of interaction between the blocks. Yard elementary school largely conceived as a play area, while the high school courtyard is rather scenery extending between the post and the reception hall for seminars. Unfortunately, because of the difficulties of maintenance in the climatic conditions of Calcutta (the scorching sun and rain), yards, eventually were closed transparent polycarbonate sheet, and for landscaping had to use artificial plants rather than live as intended. However, diffuse natural light penetrates space animates yards. For the facade of the school was used neutral tones to accentuate the graphic quality of unusual plates, and in the interior of the preference given to basic shades. It is believed that the child will associate a particular class is not only a certain sign, symbol, but with color. Shades of these tiles 4 x 4 cm were arranged in a special sequence dictated by the direction of advance along the corridor. Interiors junior school classes, laboratories and workshops are made colorful and interesting to encourage children to be creative. Printed wallpaper, painted panels, soft boards of various shapes, playful patterns floors and charming furniture can be combined in various ways.
The design of the library is interesting for its false ceiling in a dark gray mesh structure. Frame false ceiling was painted black. This method has created the illusion of height and space. The space cafeteria different atmosphere mischief, fun and laughter. Furniture and floor quite simply, on the walls soon plans to make big graffiti. Ceiling - This “explosion” created from acrylic tubes of different lengths and colors. This design is divided into sections by length and color of the tube and secured, in addition, it contains built-in lights. A lot of attention paid to landscape design school, as it performs an educational function. For example, there are a variety of fruit and flower trees, a small pond, birdbath, solar and wind lights and many other facilities to help in the training and foster students’ curiosity.