



## WAVE

LiangMen School is located in the rural area of Pu'An City, China. This area has strongly cultivated traditions. Agriculture is the main source of income for the local people. Pu'An City is a home for the Buyi minority. Their culture is highly influenced by music and the Nuo opera. Their religion is polytheistic and animistic because of their strong connections with the nature.

Even though their natural and cultural richness, Buyi people are economically poor. That's why the use of local sources and solutions is so important in the process of designing the building.

The outside of the new building is simple and traditional. The construction is made of wood that is covered with bamboo panels mounted on hinges which can be opened or closed. Few of the panels are made of plexiglass shapes enclosed in bamboo mesh. This composition allows the sunlight to enter the building when the panels are closed during colder days. Using this moving structure allows

the building to use natural ways of regulating temperature during the hotter months.

The wavy structure inside the building is the most important element of the new space. Its shape was inspired by the look of the rice terraces. It's the multifunctional structure that can be used for the storage of books and allows children to sit on it. This wave is main point of focus when the panels are open during hot days.

There is a strong interaction between the building and the natural context of a surrounding area. Especially when the panels are open and there is no boundary between the building and its surrounding. Building is situated on the wooden platform, which is natural expansion of the space during the summer. It allows for the canteen to be moved outside where children can enjoy their meal when weather allows.

During the winter four photovoltaics supply necessary energy for the building and can power underfloor heating system.

