

JUXTAPOSED LIEU

declaration / note

We understood the building laws and planned according to them in the parts of the closed area. As we have proposed a prominent public space we slightly went out of frame when it comes to the open areas and took a little something from the public: AIR. In order to return it to the public, purpose bound.

1 CONTEXT + APPEARANCE

Considering the cultural amenity of Bayruth, its diversity, dynamic and independence, it should be a matter of course that the House of Arts and Culture reflects on and mirrors all those factors, even to furthermore take in the pioneering task to address local and global issues of these times.

The building itself is a self-sufficient organism, is not disturbing the neighbours and is adding to the vibrant cultural life of Bayruth instead of assimilating it while being self-confident and independent. It isn't breathing mass but air instead and is a non-destructive structure which communicates with the inhabitants of Bayruth.

The building is – in all aspects - adjusted to the local climatic conditions and frees itself from the boundaries of global developments in terms of energy.

At first look from the outside it may appear as a compact closed cube but one will get a feeling of its inner openness when passing Juxtaposed Lieu. The cube, determined, a gesture, is not hiding the background of its purpose, it offers readability, creates prominent and distinctive public, transmitted as a signal, yet the complex task behind it remains easily readable by the visitor.

Symbolism, signalling + dynamics.

The concept to juxtapose the perception from the outside + the open inner development creates a mysterious aura hovering around the building, just to completely disappear by the feeling of overwhelming openness and clearness of the inner organisation.

The **roof** offers a green, beautiful and calm appearance and elegantly fuses into the city landscape. Furthermore it fulfils concrete tasks: see below (3.c)

2 FUNCTION, ORGANISATION + UTILISATION

vertical organisation as proposed / planned, upwards

1 garage

2 exhibition spaces, library, shops etc // fine arts

3 intermediate level at the water – water area : PUBLIC SPACE

3 halls, offices + assigned workshops, "hovering" in the air // performing arts

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connectivity

- * open building -. without any barriers in the inner development.
- * it is possible to freely move throughout the building without being forced to visit an event
- * differentiated multiple usages without disturbance to make a harmonious side by side operating of the different programmes possible.
- * supply / backstage is provided through separate infrastructure (elevators, stairways, etc) and therefore can be supplied independently

The House of Art and Culture offers two entrances, one at the southern side on street level and one on the northern side. Each part of the building can be reached from those two entries, the public space in the intermediate level is conceived as an open platform which can be served through the café and restaurant.

The intermediate level with the water area is accessible for everyone, a public, covered and shaded space, it provides identification, exchange and integration and mirrors the democratic spirit behind the project. It furthermore offers space for other levels of art, temporary installations etc.

flexibility

The main hall is designed for different usages. An Italian Style stage which can be adapted to a central stage, set ups for conferences etc .. Modular organisation, modular system!

Through changes of the acoustic panels and lifting platforms it is possible to add the stage to the audience space, according to the requirements.

3 ZERO EMISSION / GREEN ASPECTS

3a planting / purpose bound green shield

- * distinctive signal, sun protection + optimal room climate

A fine / smooth steel structure is installed for the inclusion of the medium of the plants, in order to create a living screen / shield. **matrix.**

As it is important to reach an optimal room climate as well as an extensive sun protection right from the start-up of the building, for the beginning a big number of plants on isolated media is proposed. As the natural growth of the plants evolves throughout the years the number can be reduced or plants can be exchanged.

Due to different orientation to the solar radiation the specific sides of the house may get different appearances. While the eastern side is more open, the western side is completely closed by plants; the determination of suited plants can lead to numerous options, variations and blooming sequences throughout the seasons, according to the specific sun hour + intensity orientations.

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A simple irrigation system and footbridges / gutters for gardeners guarantee an easy maintenance. If the collected rain water should not be enough in one point in time it is suggested to bring in the additional water from the reserves of the nearby mountains.

3b natural climatization

While a common ventilation concentrates on the exchange of air only it is planned to set up a circuit of natural climatization as a whole in the House of Arts and Culture.

air circuit : breathing building

The drawn-in air gets cooled down in the subsurface air channel and released into the lower areas. The pre-cooled air ascends to the upper floors and gets released through air louvers. To release the fresh air for natural ventilation where it is needed the double-walled construction with gill-function is able to guarantee controlled openings (through the gills), otherwise there could be a problem with acoustics.

Solar panels (50% translucent) are installed on the roof to power additional ventilators for the buoyancy. The ventilators on the roof pull the pre-cooled and released air through the building and guarantee a constant air exchange, even during wind-still days. A measure which is necessary as especially the halls in the upper floors need a perfectly working air exchange.

water circuit : humidity regulator, climatization

The water in the intermediate level would heat up and evaporate, even though there is no direct sun radiation due to the green shield. To avoid this scenario and to maintain a constant amount the rain water from the roof is induced into the water area.

Through a second system (closed pipe system, operated by a simple pump) the water is brought into cooler deeper grounds, cooled down and released into the water area again. It so provides a cool temperature of the tank and an almost self-regulated air humidity throughout the building.

The warmer the water in the huge area gets, the faster the circuit into the deeper grounds moves. To avoid tropical conditions the temperature in the water circuit can be regulated.

glazing: On the sides of the building a modular flexible glazing is situated beneath the greenery, on the roof above the greenery. On colder days it can be closed (only necessary thermal lift, no heating required) - during hotter days it is completely opened.

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3c daylight

During the day no artificial light is necessary. The energy of the 24hour storage battery (from the solar panels) is used for the night illumination, excessive energy is released into the grid. The reason why no artificial light during the day is needed roots in the fact that in the upper levels there is a shadowed area and underneath the halls prism-mirrors bring daylight into any spatial depth, even though the building is shadowed / stands in shadow in order to avoid over heating.

Ceiling exhibition space: natural illumination emerges from the diffuse, soft and even light from the water area. The same effect is simulated through artificial light during the night.

3d photovoltaics

Provide energy for the artificial light and the further necessary night ventilation. Excessive energy is released into the grid.

4 FURTHER ASPECTS

acoustics

The double walls offer optimal acoustics per se. The carrying structure lies inside.

The inner and outer shell is additionally changeable through movable ceiling- and wall panels. Acoustic insulation fans.

1 double wall: improvement of acoustics; sluices to avoid acoustic problems

2 smooth below, above relief-type depths

3 room proportions – height / length / width – in "golden ratio"

maintainance :

Growth control of the plants; maintenance is simple: An irrigation system and footbridges / gutters for gardeners guarantee an easy maintenance for the green shield.

waste management

A collecting point develops all substantial levels.

No detrimental by-products during the construction process and in operation.

Clean building materials!

Materials are certified for their life cycle according to their intended operation.

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