

## **Museum' Project Concept**

Taking into account the conditions restrictions specified in this competition, as well as the search of imaginative and functional organization of the zone of the Southern port in line with the earlier of the competition we propose our concept of the project of the Guggenheim Museum in Helsinki.

Preservation of the main landmarks in the historical building of the city with the subordination of the architecture of the new building to them.

Conceptual architecture solution, as the implementation of several ideological programs, which are based on regional and local characteristics, creating a unique national character.

The fundamental ideas of the characters to determine the volume-planning and architectural design of the museum project are:

- Word-symbol "Sisu";
- Kemijoki river;
- Salpausselkä range;
- Northern Lights.

Combining (merging) of these four components is a way of finding of design ideal or quinta essentia, based on the basic, sacred for Finland images and symbols.

### **Description of the design decisions**

The volume of the museum building is inscribed in the allocated territory in compliance with all restrictive settings

The height of the building does not go beyond the mark of +19500 that allows not to shield the view of the park, sea and historic buildings.

Pedestrian bridge with cycle path links the museum building with a park Tähtitornin vuori. The park territory is expanding because of creating of the green covering on the roof of the museum.

Using of the green roof provides additional possibilities for accommodation open museum exhibits and creates viewing platforms and outdoor cafes.

The museum building is connected by a covered walkway to the new terminal that allows you to conveniently receive visitors arriving in Helsinki on passenger ferries and cruise liners.

Decorated with glass, ceramics and metal polished facades are in constant change, as the Northern Lights and shimmer in the reflection of the sea. Dematerialized surface of the walls of the facade makes the image of the museum in the same unique as nature itself.

The area of the main entrance facing north to the main historic buildings. Its' large size allows to arrange a variety of presentations, display sculptures and architectural works and public events.

On the area of the main entrance are restaurant and cafe.

There are great views of the harbor and historic buildings of the Southern ports from all these socially important areas.

The basic concept of the museum continues its development in the interior, which is like a river flowing between the halls-ridges.

In the interiors are widely used modified and glulam beams, as in the decoration and in supporting spatial structures. In conjunction with the texture of the stone walls tree adds a special touch inherent in mode of life of the Nordic nations. Simultaneously, the space of the museum is perceived as a kind of cave, where huge treasures from the epic «Kalevala» are hidden.

### **Description of the technical solutions.**

Volume-spatial and constructive solutions of the museum building optimally address the issues related to the organization of:

- natural ventilation;
- natural light access;
- the system for maintaining an optimum temperature and humidity;
- system for collecting rainwater;
- system associated with overheating and cooling.

The possibility of using natural energy for the operation of the building reduces the cost of its maintenance.

Minimal use of underground space reduces the cost of construction of foundations and waterproofing.

Using prefabricated metal and laminated wood as a load-bearing frame structures reduces costs.