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Team Karaage-KatsuDon

BAI YIBING:Environment

CHEN YUTONG: Environment

Towa Hiramatsu:Urban Planning

3rd Submission : Preliminary documents

Bridge of Nature



Location

Firstly this place is easy to attract visitors come from different directions. There are 3 directions for visitors. We also use the road behind the building by the platform of second floor.

Secondly, We build a solar room by Round glass helping building make full use of sunlight and integrate with nature. even in winter the glass will help visitors feel warm.

In addition, This place is not many historical buildings so that we will not disturb the landscape of the Semmering.

Surroundings

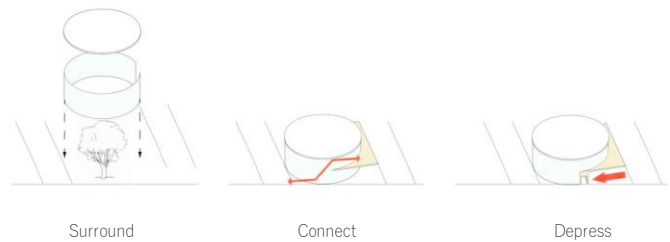
the target region has plenty of trees. In order to protect the nature we kept a tree from the site where the house was built. Troughing glass the tree can absorb the sunlight and make the place harmony.



Connecting

The platform we installed adds the third way for visitors to come and help building connect the land in different elevations.

Diagram



Circulation

The first floor matches the topography of the site, making the air circulation.

Functions

We set the Consulting Desk for visitors to solve the problems in the first floor. Here we will introduce the scenery of Semmering. The second floor has a space for viewing nature landscape and resting. In different seasons, this floor can also be used for exhibitions of the various activities of the Semmering.

We will provide a sharing area for tourists to introduce cycling and hiking routes and an experience area for tourists to provide skiing

experience combined with modern technology. Secondly, we will combine solar room. With the glass of solar room to create a good viewing platform while saving energy and provide visitors with beautiful scenery.

In order to let visitors better understand the charm of Semmering railway and give consideration to the introduction of natural scenery, we will also open the centennial history exhibition of Semmering railway to let people understand the history of this railway in a deeper level from the two aspects of heart and sight.



Energy-Saving



In order to save energy our team proposed the approach that using Passive Solar Energy. Solar room is designed both to maximize solar gain and to minimize heat loss.

For the materials we use the glasses which combining solar control with Low E Thermal insulation in one double

glazing unit.

A solar control glass is a glass with a special coating designed to reduce the amount of heat entering to buildings. It reflects and absorbs heat as well as filtering light for reduced glare. It also helps to prevent the heat during hot summer months.

What's more, for the sake of meeting the Predicted Mean Vote to the visitors in this project we will also combined the Artificial technology and energy saving technology, like the heat pump, thermal storage tank and so on.

