Alpine Retreat

Group E

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ARCHITECTURE

Regarding the architectural concept:

First of all, we hope to create a building with a lot of wooden gray space, which is conductive to users to feel the true sense of living space. In the process of static analysis, the structural parameters can be directly revised with Sofistik. The program has the advantage of forming an interface with other software, which is beneficial to check whether all elements satisfy clash-free geometries. This requires clash detection.

Secondly, we want to express natural and unique architectural design and soft space. The building has a significant feature.

Thirdly, we focus on the function of the building, which not only connects the load transfer in the building but also supports the facade.

Fourthly, the building uses a polygonal geometry, and considering the effect of the wind direction, the angle of the wind is a purlin roof with an opening to resist the wind. The slight rotation of the building is adjusted to the direction that is most conductive to resisting the wind. The slight rotation of the building is a plus. At the same time, we hope that such a more natural outdoor space in summer or sunny days. At the same time, we hope that such a more natural outdoor space in summer or sunny days can shade and rain, and provide a pleasant feeling. The combination of the most materials used in the design and the structure and environment is also considered, which results in a smooth working process in the factory.

STRUCTURE

Initially, the static structure was designed to provide structural safety, taking into account the possible flexural stresses and the pressures from the different directions. This includes a plug-in for Revit 2020, which allows the transfer of the individual geometries. Therefore, the database from the created model was the basis. For the implementation of the static analysis, the software RiB iTwo was used. This software includes a plug-in for Revit 2020. Besides the Sofistik software, there is a plugin that allows the coordination of the different directions but also supports the facade.

In addition, the interaction between the building and the environment is a plus. The public space can connect the space with sunlight pouring down in the center of the building. This public space can connect the space with sunlight pouring down in the center of the building. Therefore, we hope that there can be a central public space without interfering with each other. The building was divided into two levels. The upper floor extends far beyond the basement. The other structural elements consist mainly of prefabricated elements to ensure uncomplicated transport. And adopt the prefabricated method to transfer the individual geometries. Therefore, the database from the created model was the basis. For the implementation of the static analysis, the software RiB iTwo was used. This software includes a plug-in for Revit 2020. Besides the Sofistik software, there is a plugin that allows the transfer of the individual geometries.

QUANTITY TAKED

In order to perform a quantity calculation, the database of the created model was used. For the coordination of the different directions, a regular concept was developed in the process of static analysis. These develop in the process of the beginning irregular arrangement, the end of which results in a smooth working process in the factory.

CLASH DETECTION

The quantity is a simple and additive process, which results in a smooth working process in the factory. In the process of the beginning irregular arrangement, the end of which results in a smooth working process in the factory. If there is an overlap of the different directions, the clash will be shown in the result. In the process of the beginning irregular arrangement, the end of which results in a smooth working process in the factory.