

## **Study on the Interior Design of University Dormitory**

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*Abstract: There is a widely existing phenomenon that the design of dormitories in the universities and colleges of China are not reasonable, no matter the residual conditions or the interior space environment etc. all have the problems of poor design. The design for many dormitories only stays on the design level of residual needs instead of truly considering the humanized design, which not only can't meet the residual request of students, but also a demonstration of causing the resources waste.*

*Keywords: University dormitory; Interior design.*

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### **1. INTRODUCTION**

Under current situation that the people's living level has been gradually improved, the input to the university dormitory has been widely concerned. The dormitory is the environment for students to study and live every day, its interior design has an impact on the routine living status of students. However, the designs on living conditions and interior environment of university dormitory in China can't meet the residual needs of students. This study performs the analysis on the interior design of university dormitory to provide the reliable basis for the interior design of university dormitory.

### **2. PRINCIPLES OF THE INTERIOR DESIGN OF UNIVERSITY DORMITORY**

The interior design of university dormitory should reflect the principle of humanized design, which doesn't mean how to make it luxury. But it should ensure the practicability and conformability of interior space, as well as integrate the tidy and artistic design on the basis of meeting the residual function. In the interior design, the residual needs of students shall be considered as the starting point, respect the individuality of students and create the good living atmosphere; in addition, the design of reducing the energy consumption should be considered by taking the cost saving as the starting point, as well as carry out the interior design of university dormitory with the integrated thought.

### **3. DESIGN OF BED IN THE UNIVERSITY DORMITORY**

The beds in the current university dormitory are mainly divided into two kinds, one is the type of bunk bed frame, that is, the beds are on the top and under layers; the other kind is the type of separating the space up and down, that is, the bed is on the top layer, the desk or clothes cabinet

is on the under layer. In which, although the bunk bed frame can save some indoor space, the design on its safety, convenience and personal privacy etc. are poor. For example, the ladder connecting the top and under layers is too thin, it is not comfortable and safe for students to step on; in addition, the design on the edge of top bed has certain safety hazard etc., all of which need the improved design. In the university dormitory, in order to separate the space for each person, it is recommended to apply the integrated bed separating the top and under space, meanwhile carry out the optimization design to the details. It is possible to enlarge and widen the ladders for top and under beds to increase the sense of comfort; the edged guardrail on the top bed shall be extended straight to the edge of ladder to strength the safety. The materials of beds shall adopt wood to enable the overall environment to demonstrate the sense of warmth, rather adopting the commonly used steel materials that make the students to feel the living environment is cold. Moreover, it is able to design a mini-table on the bed to facilitate the reading and studying of students, which can be put down at the end of bed when not using without taking up the resting space. A distance of 20-30 centimeters can be saved between connection of the end of bed and walls to design a space for placing the small articles e.g. mobile phone, wallet etc., as well as design a small wall lamp below to facilitate the students to read on bed.

#### **4. DESIGN OF CLOSET IN THE UNIVERSITY DORMITORY**

The closet in the university dormitory mostly applies the steel materials for fabrication. Even though the closet applying such materials is durable, which will give a sense of coldness to people especially it is unable to feel the warm touch when taking clothes in winter. Therefore, the closet should apply the wooden materials for fabrication to increase the senses of warmth and comfort in the dormitory. In addition, in order to consider the environmental protection and safety. In order to consider the environmental protection and safety, the closet should adopt the solid wood veneer gluing materials with its special pattern makes the residence feel more comfortable. Most of the closet designs in the university dormitory are not humanized, therefore, the writer think that the closet shall be designed as per the principle of human engineering, as well as carry out the reasonable design to the depth, height and width of closet according to the average body height of university students. The depth of closet should be ensured between 500-550mm, and the design should consider the space for storing the quilt. The design for this space can be flexible, and usually its height can be designed as about 350mm. As for the design of closet door, its width should be between 500-550mm. It is able to design the space for storing shoes below the closet, and its height should be 280-320mm, ensuring the students to have sufficient storing space, avoiding the disordered placement of stuff due to the limited storing space that will make the small space become messier. The closet in the university dormitory is used as the storing space for students. Therefore, it should be expanded as much as possible when designing it to comprehensively consider the usage rate of indoor vertical space.

## **5. DESIGN OF PUBLIC SPACE IN THE UNIVERSITY DORMITORY**

As a matter of fact in the design of university dormitory, except the designs for the bed and other furniture should be humanized, the design for the public space is also very important. In the university dormitory, the humanized design in the design of public space is reflected as the designs of space e.g. the indoor hot water supply, study room, shower room and the space for hanging clothes etc. Regardless of the design for space, it should be dividedly designed on the condition of studying space and resting space to avoid the influence from the students who are performing activities on the student who are resting or studying. The main entrance is set in the east to facilitate the centralized management with the exits in south and north respectively. It is also able to manage the single building respectively. The entrance of empty space that is as the sports place can be set up in the west, which is echoing with the sports stadium. The empty space is installed one lighting shed with good lighting effect. In consideration of the climatic characteristics in south China, the standard layers shall all adopt the single corridor with open-typed staircase for ventilation. The single room is considered as per four persons, there is a separate bathroom and balcony in the room, each student has closet, computer table and book shelf, there are debris rack and space for placing the washing machine in the balcony, which provide the good living environment for the students.

## **6. OVERALL ARRANGE OF UNIVERSITY DORMITORY**

The design of dormitory should only meet a certain quantity of architectural area, but also base on the coordination with the surrounding environment to burnish the environment. The location of dormitory determines that the high-rise buildings are not proper here. And the area of 18500m<sup>2</sup> determines its volume is quite large. How to make such large volume of dormitory cause no oppressing sensation to the front square of Shaoyifu Sports Stadium is also the problem worth deliberating in the design. When making arrangement, we have performed the cooperation for several plans. A-type dormitory is three lines in queue with good ventilation and lighting, there is no interference between each other with hard coordination and inconvenient management. B-type dormitory is a large quadrangle courtyard with four buildings of large area, but it is quite closed and the ventilation is poor, there are too many rooms with east-west direction and significant interference. C-type dormitory is three buildings in queue with corridors in the middle, and it has strong integration but too many corridors, as well as the firefighting in the middle building can't be ensured. The wests of B-type and C-type are connected together to cause compressing sensation to the sports stadium. D-type dormitory has two south-north directional building and one east-direction building, which is open to the stadium and coordinates with the stadium. Its large bottom space is not affected by the column grid of main body, and it is applicable to the needs of stadium. The garden on the second floor and partial stadium are integrated with the environment. However, the architectural area for this kind of arrangement is small, which can't meet the design requirements. E-type dormitory integrates the advantages of the above-mentioned four types. There are three south-north directional buildings and one east-directional building with the middle building shrinking

inwards in west to reduce the compressing sensation to the stadium in the west. The large cambered surface of under-layer in the west is facing the stadium to form the surrounded pattern. Finally it is determined to apply E-type dormitory. The determination of overall arrangement provides the reliable guarantee for the single design.

The university is the place we always think of after we leave school, because there are our memories of youth. As for the interior design of university dormitory, it requires the reasonable design and planning to the indoor space, striving to make the space design reflect variety and individuality. It not only meets the living needs of students, but also plays the roles of cultivating the students' taste. It needs the interior designers like us to continuously explore and practice, striving to create beautiful interior design of university dormitory for the students.

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