

From Crisis to Opportunity: The Transformation of Green Interior Design in the Post-Pandemic Era

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Abstract: As a design concept, green design plays a vital role in interior design, but from the global spread of the new coronavirus in 2020, people have finally paid a heavy price for the wayward of the earth. Thousands of people lost their lives. This battle without gunpowder smoke tested human nature but also tested human resistance to epidemics. People are gradually introducing indoor reality into the environment, providing interior designers with new development ideas to explore new fields, combining the concept of epidemic prevention with the concept of green design. Firstly, the principle of green anti-epidemic design concept in interior design is analyzed, and the application of green anti-epidemic design in interior design is discussed. Finally, according to the current situation, the development trend of green epidemic prevention design concepts in the future interior design is predicted, which provides the foundation and guarantee for applying green epidemic prevention design concepts in interior design.^[1]

1. Introduction

The virus of 2020 will arrive suddenly, violently, and stubbornly, indicating that humanity's struggle against disease will be grim and long, and the history of human survival will be accompanied by it. Therefore, in the long run, improving the earth's environment, from the perspective of eyes, food hygiene, environmental hygiene, improving immunity, as well as from the outbreak, global epidemic spread and control and other aspects of severe and comprehensive thinking of various living environments, has become one of the current universal focus of people, more awareness of epidemic prevention, to create a healthy and environmentally friendly live environment, Escorting their life safety. Therefore, it has also become a topic for interior designers and citizens to discuss together, establish the design concept of green epidemic prevention, and create a safe indoor environment.

2. The principle of green epidemic prevention concept in interior design

It is difficult to survive for a long time in airborne and sunny places, and it is difficult for any virus to survive and reproduce in animals or damp, dark, warm corners. Therefore, expanding illuminated surfaces and setting up adequate ventilation are major countermeasures in architectural and interior design. Scientists have confirmed the spread of the epidemic, and people and various

objects can transmit the virus, so it is essential to reduce the use of space and resources and provide a spacious and circulating area. To reduce the indoor volume, the decoration form is simple: the pursuit of the most state of function and structure, not excessive decoration, leaving no sick space, reducing visual pollution, reducing consumption, reducing costs, as far as possible, the use of all materials and substances for interior design, minimize dust, noise, waste gas, wastewater and pollution in environmental construction, to reduce the spread and spread of the virus. In addition, demolishing the old building is bound to bring garbage noise, resulting in waste of human and material resources, and also cause air pollution, which is the first principle of green epidemic prevention design advocacy. Reducing resource consumption, lowering energy relative to the new building on the use of indoor space, and improving space utilization are beneficial to environmental protection.

In indoor disinfection, it is important to have a deep understanding of the following problems: large, complex decorative carvings, easy to hide dirt, is a place where bacteria and viruses can easily survive. Therefore, it is difficult to clean these decorations during indoor cleaning and disinfection. The corners and broken surfaces of these places need to be constantly scrubbed and disinfected, which is also a challenge to maintaining the aesthetics of the living room. For this reason, it is necessary for designers to do something about the interior design, such as installing automatic disinfectant sprayers in the entrance hall, and these intelligent devices have already been installed in some factories, companies and hospitals with a high flow of people. But its indoor in the public family is not famous, after all, some of the disinfection equipment is expensive, the average person may not be able to afford. Nowadays, the prevention and control of indoor environmental hazards has gradually become the focus of government attention, the future of intelligent equipment will gradually be widely used. This illustrates the point. The future trend of interior design is bound to be intelligent disinfection equipment.

3. Problems faced in green epidemic prevention design

3.1 Interior decoration materials are not "green."

Chemical pollution is in the decoration because most of the materials used are chemicals; these substances have a specific toxicity, posing a severe threat to human health. The air can wave a lot of toxic substances, but also in the spread, if living in a poisonous room for a long time, it is easy to cause disease. For example, formaldehyde and carbon monoxide are the most common ones, and they can cause human diseases. Some building materials are usually fine, but when exposed to high or low temperatures, they can react chemically and pollute the air. Only in the building of the "aseptic room," "sunshine room," and "[2]smart room" do surface work. In the existing green interior design process, the designer only uses some design details to make natural green, such as choosing free formaldehyde materials for design, construction, and green and epidemic prevention concepts as selling points. Although this material is not much different from other materials in appearance, it contains more chemical components that are more harmful to people and physical health. The use of this material not only reduces the environmental health indicators of the entire indoor environment but also reduces the safety performance.

3.2 Resource recovery is not in place

Remnants of some design materials show up in the craftsmanship of interior design. In the current interior design, because part of the available resources is not well-recycled design, resulting in the most significant lack of resources, designers often easily overlook this. For example, in the process of interior design and construction, many times produce plates, such as material allowances, designers can put the remaining materials, innovative design, waste, design, and some decorative objects as

interior decoration materials, which can be used to support, which can both improve the utilization rate of materials, but also the remaining decorative materials, So that the plate can also be a material such as a plate. It can also reduce the pollution of waste and residual materials in the natural environment to achieve the role of energy saving.

3.3 Pay too much attention to decoration and ignore the design connotation

The global explosion in 2020 makes people stay indoors longer than in any other era, so interior design will directly affect people's psychological needs. If the basic internal requirements are ignored, some interior designers have a one-sided pursuit of the interior environment. Creating a comfortable, healthy, and suitable living environment is the primary purpose of people designing the internal environment. And a small part of interior designers, in the design process, did not fully consider the impact of materials, patterns, and other design, just the simple decorative art through personal ways, unthinkingly pursue the beauty of interior design, ignoring people's basic needs, the concept of health and comfort behind. Therefore, the finished interior design fails to achieve the expected effect and could be more satisfactory regarding economic benefits, user satisfaction, and environmental protection.

3.4 Insufficient consideration of technical and economic aspects

The green epidemic prevention interior design of all projects cannot be completed through design but needs to integrate the whole process, including economy, technology, management, and the psychological needs of ordinary people. As a green epidemic prevention design, not only the materials and materials are environmentally friendly, but also the implementation of green construction methods to maximize environmental benefits and avoid luxury. When implementing the design work, the designer should complete all management aspects to ensure that the whole process from design to design can implement the green epidemic prevention design concept. ^[3]The safety of the entire structure is provided from all aspects.

4. Application of green epidemic prevention design concept

4.1 Based on People

The so-called interior design is designing an environment so people can live in it. For people, although the indoor climate can actively change the living environment, it is an essential factor affecting physical and mental health, as well as living standards. Especially when the epidemic occurs, people's psychological needs are more important. From this point of view, as the most basic demand of indoor environment design, before living in a comfortable indoor environment for a long time, it is necessary to study the physiological characteristics of people, which is the place for indoor environment users to learn. Furniture layout elements such as indoor space size are physiological aspects of people, but also the reference basis at the same time to choose indoor materials, as the primary task of interior design is to ensure physical and mental health and life safety. Therefore, as interior designers, to determine the specific material and related value of each decorative material in interior design, we must understand ergonomics through scientific analysis and judgment combined with space design to determine the physiological characteristics of the human body.

4.2 Space Design

Due to the different characteristics of each interior space, interior designers need to choose green

and environmentally friendly materials according to the other spatial forms and rationally allocate the interior space to achieve both beautiful and multi-win situations of internal design resources. Create a natural and fresh interior environment. In the design process, designers should create a climate that combines nature and interior space according to the changes that the design will bring to the room, and at the same time, should combine natural conditions such as light and wind to make reasonable use of the characteristics of the entire area. In addition, the functional requirements also need to be paid attention to in interior space design. For example, the height of the gate should be designed according to the size of the man, and the height of the stairs should be designed according to the average height of the woman. It also needs to develop according to the different needs of people to meet the needs of people's indoor functions simultaneously, to ensure the full use of natural resources for the other services of each space, such as living room, kitchen, toilet, and so on.

4.3 Saving resources

"Green Epidemic Prevention" interior design can be seen from the title of its design concept: energy saving, environmental protection, and ecological safety are new interior design concepts. And effective use of resources to achieve indoor green design through the contemporary implementation of the "green" concept.^[4] Using indoor materials to the maximum extent ends extravagance and waste, compresses costs, and reduces consumption and other situations. To do this, people first must change their traditional aesthetic concepts, no longer pursuing luxury but advocating simple interior design. Doing this is also the most important thing. Second, in choosing interior decoration, designers need to make a choice. From a practical point of view, while minimizing the use of non-renewable energy to avoid the overuse of decorative materials, the full use of materials should be considered. Finally, we adhere to the principle of recycling, under the premise of effectively reducing the economic investment in the decoration process, strive to achieve the demolition of indoor functions, but also contribute to the protection of the environment, reduce the pollution of garbage to the environment, which is what we should do in the decoration process,

4.4 Material selection

The selection of green materials plays a crucial role in the green interior design, which is also the way to achieve the final green interior design. GreenMaterials refers to materials with lower environmental pollution, lower energy consumption, and higher performance, which refers to materials that can not highly pollute the environment. Using this material is conducive to recycling after use and can effectively reduce the degree of environmental pollution. Therefore, green materials are indispensable in interior design. When choosing green materials, you must select some high-tech elements that can play the role of lighting insulation materials, such as dimming glass, heat insulation wall, heat absorbing glass, etc. You can also choose some materials with energy-saving effects. The use of green environmental protection materials, such as energy-saving lamps, water-saving valves, etc., dramatically reduces the pollution of the environment. As little as possible to shop wood, such as must use wood, so that water-based paint in wood paintwork, to achieve the purpose of protecting the environment, you can try to choose the method of reducing pollution, low pollution, reduce harmful substances. This method is also suitable for other materials; that is, compared with the non-renewable energy that must be used, the consumed material should be consumed as low as possible in the case of pollution 5, as far as possible, it is suitable for renewable energy that can be recycled.

4.5 Going Back to Nature

The epidemic will occur because people spend more time indoors than outside the room and spend

more time indoors without the baptism of sunlight, which can cause a variety of psychological and physical obstacles. Therefore, an overall design that returns to nature should be made, and comprehensive indoor factors should be planned to let the occupants live in a harmonious environment. This is the concept of green epidemic prevention design. Through scientific analysis, the indoor space and ecological environment can be reasonably isolated, creating a comfortable indoor, environmental, and physical environment with symbiosis between nature and the indoor environment. For example, we can increase the indoor natural lighting of large-scale floor-to-ceiling Windows, integrate vines and cannabis plants, and strengthen indoor plant decoration materials. This not only realizes the need for indoor beauty but also brings the indoors closer to the natural environment and realizes the "Green" design effect.^[5]

5. Conclusion

Green epidemic prevention design is a new concept designed by designers, designers, and designers according to the specific requirements of the overall plan for the indoor environment, ecological environment, and residential population while realizing low-carbon environmental protection, harmony with nature, and improving people's quality of life. It is also a new design method. The global epidemic has made people begin to pursue the concept and behavior of green epidemic prevention, which has been deeply rooted in people's hearts. In interior design, the function of green epidemic prevention should be played more deeply and widely. Then, applying the green epidemic prevention design concept cannot only effectively improve people's quality of life and improve the living environment but also give the earth a clean and comfortable environment that the world should have.

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