

Aesthetic Art of Glass Materials in Interior Design

Mengqi Zhou

Wenzhou Polytechnic, Wenzhou, 325035, China

*784779975@qq.com

Abstract

Glass is an ancient and practical material, which has been widely used in interior space design. The development of new glass materials leads to new aesthetic content and cultural connotation. The development of glass materials has become a diversified interior design material. This paper expounds the application characteristics of glass in modern interior design to interpret the aesthetic art of glass materials in interior design. This paper discusses the practicability, decoration and environmental protection, analyzes the design cases, and provides theoretical support for the application of glass materials in interior design.

Keywords

Glass; Materials; Interior Design; Aesthetic Art.

1. Introduction

Glass materials are commonly used in interior design, and glass has existed for more than 1000 years. With the development of the times and scientific progress, the types of glass materials range from ordinary flat glass at the beginning to LED photoelectric glass and environment-friendly glass that can discharge carbon dioxide. There are more and more kinds of glass with different styles. The application has also developed from the most original doors and windows to high-tech new glass that can adjust indoor temperature and brightness. In the 20th century, simple style interior design first emerged in Northern Europe, and then the emerging modernism design style and deconstruction design style evolved. The craft manufacturing of glass materials played an important role, and the application of glass products also had rich and diverse changes with the corresponding schools. Due to the unique clear feeling of glass material and the characteristics of easy transformation of sound insulation and heat insulation, it is also increasingly favored by interior designers and gradually becomes a decorative material with perfect combination of practical value and artistic value in interior design.

2. Artistic Characteristics of Glass Materials

2.1. Transparency and Refractivity

Glass has good perspective and light transmission performance. In modern interior design projects, glass is often used as doors and windows, partitions, and glass brick curtain walls, which can not only increase people's visual sense of broadness, but also effectively divide the ideal functional areas, playing a transparent role. The transparency of glass materials is often reflected in the design of small residential space. Glass has the characteristics of refraction and reflection. Many commercial spaces, entertainment spaces and catering spaces at home and abroad use glass as partition and wall decoration. The combination of glass material and light and shadow makes the space more extensible and penetrating. Permeability and reflection and refraction combine to create a wonderful visual sense, as shown in Figure 1. Transparency and Refraction.



Figure 1. Transparency and Refraction

2.2. Thermal Insulation and Stability

Traditional glass materials have certain temperature insulation characteristics. With the development of industry and technology, glass materials have been developed to use solar energy to regulate indoor temperature. The application of this glass window in the indoor space can protect the indoor temperature, reduce the cost of energy consumption for temperature control, and effectively achieve a modern lifestyle of energy conservation and low carbon.

The main raw materials of glass materials are quartz, limestone, soda ash and other auxiliary materials, which are melted at high temperature. After cooling, transparent solid is formed. Its chemical formula is not easy to change, and it has strong resistance to various weather conditions. For example, tempered glass and laminated glass have been widely used in modern interior space design, as shown in Figure 2. Tempered glass in interior.



Figure 2. Tempered glass in interior

2.3. 2.3 Intensification and transformation

Many people like the beauty of glass, but they are worried about its safety. Traditional glass materials are usually easy to break, so few people use all glass products to decorate their homes. With the development of materials and technology, tempered glass, bulletproof glass, explosion-proof glass and other materials have emerged one after another. Glass has long removed the title of fragile vase, and a large number of reinforced glass has been widely and safely used in the design of various spaces. Both the exterior walls of tempered glass and the interior partitions and furniture have reached the safety index that can not be easily damaged by human beings, as shown in Figure 3. High strength glass.



Figure 3. High strength glass

At present, glass materials can be processed into frosted glass, polished glass, colored glass, spray glass and other glass styles. These rich styles make the interior design effect more interesting. The new form of glass material can be used to create handicrafts of different styles, and the modeling is more artistic, as shown in Figure 4. Glass diversity.



Figure 4. Glass diversity

3. Application of Glass in Interior Design

Glass materials are widely used in interior design, and have developed to every corner of life and work. Nowadays, the fast-paced life makes the work pressure and life pressure increase significantly. Therefore, a good working and living environment has become what people expect. The comfortable living space makes people's life relaxed; High quality dining space promotes people's appetite and ensures their health; Relaxed office space can effectively eliminate people's sense of tension and fatigue; Leisure and entertainment space enables people to feel artistic beauty in their leisure time. The glass material used for interior decoration can achieve ever-changing effects, and various forms and colors can meet people's environmental needs in all aspects.

3.1. Office Space

Shanghai SOHO glass office is an office space designed by combining glass with light and shadow. The space area is not large, and the interior includes the functions of sales center and conference room. In order to meet the needs of space functions and create a wide field of vision, the designer used glass materials to design partitions, walls and floors. In order to distinguish certain functional areas, carpets are laid on the ground for differentiation. The glass material has achieved the effect of depth in the project, as shown in Figure 5. Glass office.



Figure 5. Glass office

The partition, wall and floor areas are designed with glass materials, which makes the space more visual malleable and open. As shown in Figure 6. Visual extensibility and openness.



Figure 6. Visual extensibility and openness

In the scheme design, the design method of combining glass with light and shadow and the glass reflection effect are used to make the space effect more sci-fi and cutting-edge, as shown in Figure 7. Glass and light and shadow.



Figure 7. Glass and light and shadow

3.2. Museum Space

Shanghai Children's Glass Museum is a museum of contemporary art and design for young audiences. The museum space is transformed from a glass workshop to provide visitors with exploratory experience. The theme of space design is to provide children with knowledge about glass, environment, science, technology, art, design and human civilization, as shown in Figure 8. Transparent glass wall and mirror wall.

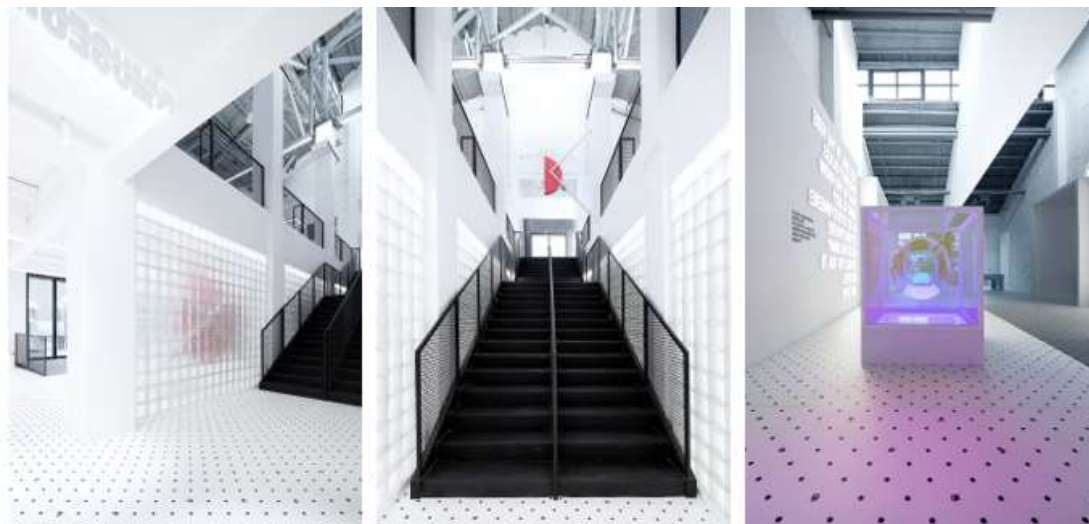


Figure 8. Transparent glass wall and mirror wall

In the space, black and white are used as the main color of the room, and colorful art installations are added to fully reflect the colorful glass, as shown in Figure 9. Colorful glass.



Figure 9. Colorful glass

4. Conclusion

The rapid development of life and work rhythm gives people more and more pressure, so the space environment design is more important. Glass materials are environmentally friendly and durable both in terms of raw materials and manufacturing methods. Its unique artistic beauty is also more suitable for people to enjoy the peace and comfort of their dreams. With the progress of science, glass materials will become more and more diverse. The application of glass in modern interior design shows the aesthetic art of glass materials in interior design. In this paper, the characteristics of glass are sorted out, and the application effect is demonstrated by case analysis, so that more designers can understand the aesthetic value of glass materials and provide designers with design ideas about the aesthetic direction of materials.

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