

Research on interior design based on the concept of whole house customization integration

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Abstract: The whole house customization is not a new thing, but it is particularly noticeable in recent years, which has a great relationship with people's concept of interior decoration, furniture and furnishings purchase. The development of the whole house customization field is also changing quietly with the change of people's concept. Contemporary home decoration design, from the past traditional construction to today's design and construction of one-stop service, decoration industry has developed more and more convenient. In order to save the working time of modern people, the decoration industry has gradually formed a new decoration mode full case design. The whole case design refers to the systematization and modularization of modern home design, in which the main services include preliminary measurement, apartment type analysis, functional layout, style positioning, capital planning, drawing budget, overall construction of artificial auxiliary materials, collocation of soft clothes, home purchase, collocation and purchase of main materials, equipment purchase and all-round process of garden design.

1. Introduction

The integration of whole-house customization represents the development and progress of an era and an industry. It is a concentrated expression of people's pursuit of individuality, fashion, convenience and efficiency [1]. The integration of architectural decoration, furniture, soft decoration and other industries has made decoration and purchasing furniture and accessories more convenient, and the field of whole house customization has gradually been accepted, recognized and respected by people [2]. From the cognitive perspective of Chinese residents, we can see that although the concept of integrated design is more advanced, the content of cognitive level is still relatively vague, and the concept understanding is not clear enough. From the superficial understanding, the residents' understanding of the integrated design concept is only a decoration concept, which is considered as a fully decorated residence. But this is not the case. Fully decorated residence is not equal to integrated design residence [3]. From the essence of fully decorated residence, this is a state that describes the completion of the residence, "that is, before the house turns the key, all the fixed surfaces of the functional space are paved or painted, and all the basic equipment of the kitchen and toilet are installed" [4]. On the basis of mass customization and intelligent manufacturing technology, enterprises provide customers with a series of household products and services including door-to-door measurement, professional design, customization, logistics and transportation, door-to-door installation, acceptance and maintenance [5]. The whole house custom-made home pursues the coordination of style, color, shape and function among all the household components in the whole house environment, involving many fields such as room furniture, home decoration, household appliances, home textiles, home decorations, lamps, kitchen utensils, sanitary appliances and so on [6].

2. An overview of the whole-house custom-integrated indoor whole-case design

As the post-90s and post-00s have gradually become the main consumers, consumers in the new era are more pursuing personalized, diversified and individually customized experiences, favoring high-quality, green and environmentally friendly products and convenient and efficient services. The

development of customized home furnishings not only caters to The consumer demand in the new era also meets the current stringent requirements of a large number of small commercial housing and secondary decoration markets for space optimization. Whole house customization is a home customization solution that integrates home design, customization, installation, and after-sales services. Furniture is undoubtedly the most important part in the custom design of the whole house. The purpose of the whole house customized furniture is to tailor unique furniture according to the user's space situation, preferences, functional needs and other aspects. In the design process, users can participate with designers to make the design more in line with users' requirements. In recent years, with the gradual development of China's construction industry, people's demand for architecture is gradually increasing, and residential integrated design has become the main concept of architectural design and construction in the new era. The so-called housing integration is worth designing the whole building from the perspectives of building structure, interior layout and so on. The menu decoration mode is mainly to carry out complete decoration design for the house before handing over the house to the residents. The contents covered by this menu-style fine decoration style are shown in Table 1 below:

Table 1 The main content of the menu decoration mode

Outdoor	Doors and windows, balconies, facades
Indoor	Partition wall, hall, bedroom, bathroom, ceiling, bottom surface, wall, indoor door
Equipment	Lamp, socket, electrical switch, kitchen equipment, bathroom, the intelligent system
Public space	The entrance lobby on the first floor, the elevator lobby on the standard floor, the ceiling, wall and ground of the fire stairwell

Compared with interior decoration, the style of interior decoration can better reflect the personal taste, aesthetic concept, artistic accomplishment and economic level of the residents. From the comparison of the participation of indoor decoration and indoor installation residents, the relationship is shown in Table 2:

Table 2 Relationship between interior decoration and interior decoration of integrated residences

Main content	The first stage of interior decoration	The second phase	The third stage of interior decoration
Specific project	Double bottom plate	Lamps	Furniture
	Partition wall	Sanitary ware	Curtains
	Gate	Cupboard	Artwork
	Double ceiling		Electrical appliances
	Wallpaper		Bed linings
	Hardware		
Individual needs	Low	Middle	High
Participation	Designers are the mainstay, customers provide suggestions and partial participation	Designers are the mainstay, customers provide suggestions and partial participation	Customer-oriented, designers supplemented by opinions
Construction method	Factory production	Distribution center	Buy it yourself
	Installation site	Installation site	

In general, the integrated design of residence can be regarded as full decoration, that is, the full decoration is not a simple blank house plus decoration. According to the regulations of the Ministry of construction, the decoration design of residence should be carried out before the construction of the main body of residence, so that before the residence is delivered for use, all the fixed surfaces of indoor functional space are paved or painted, and water supply and drainage, gas, ventilation and air conditioning, etc The lighting power supply and intelligent system are basically installed in place, the kitchen, toilet and other basic facilities are fully equipped to meet the basic use functions, and the householder can live directly. In the contemporary home decoration design, from the traditional construction in the past to the one-stop service of design and construction today, the decoration

industry has developed more and more conveniently. In order to save modern people's working time, the decoration industry has gradually formed a new decoration mode-whole case design. The whole case design refers to the systematization and modularity of modern home design, in which the main services include early measurement, apartment type analysis, functional layout, style positioning, capital planning, drawing budget, overall construction of artificial auxiliary materials, matching of soft furnishings, purchasing of home furnishing, matching and purchasing of main material products, purchasing of equipment, and the all-round process of garden design. The whole house custom home furnishing industry chain involves many fields, and the interdependence of the industry chains is high, but it lacks interconnection requirements and industry chain management standards.

3. Interior design based on the concept of whole house customization integration

3.1. Design and application of whole house customized integrated interior furniture

Customized furniture "tailor" let its functionality get the greatest degree of embodiment: first, according to the space situation "tailor". Second, according to the situation of users, "tailor". In the traditional concept, customized furniture is panel furniture and linear furniture, which has regular and neat visual effect. But with the continuous development of customized furniture, especially the emergence of the integration of whole house customization, this model concept is gradually broken, and its artistic value is also constantly improving. The whole house customization integrated interior furniture design can be developed from three aspects, namely, overall design, system design and product design. The whole house customization is integrated into every detail of furniture design by means of wide mouth and thin mouth. According to GB/t13016-2009 "Principles and Requirements for Compilation of Standard System Table" and the characteristics of the whole house customized home industry chain, the standard system is preliminarily divided into seven subsystems: foundation and synthesis, design, manufacturing, logistics, installation, acceptance and maintenance, as shown in Figure 1.

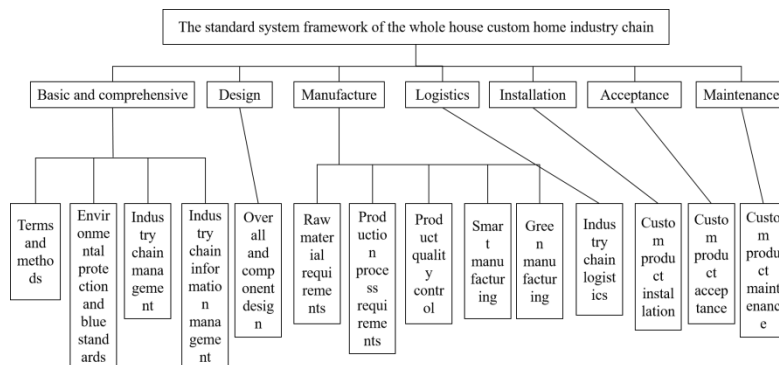


Figure 1 The standard system framework of the whole house custom home industry chain

According to the characteristics of different living environments, the customized home furnishing industry can tailor suitable home furnishing products for consumers to reduce unnecessary space and waste of resources. Therefore, the customized home furnishing industry in the design, raw material purchase, production, sales, installation In all aspects, we should adhere to the concept of green, environmental protection, and energy saving, and speed up the formulation and revision of existing environmental protection standards.

3.2. Overall design

After the completion of basic decoration, it is the matching of soft clothes and home furnishings. This work is a key link in the whole design. Traditional decoration generally achieve the completion of basic decoration on the end, in fact, the late soft clothing collocation is a part of the icing. General customers in collocation of soft decorations and furniture are not a unified planning arrangement, most of them see what they like to buy, random collocation, give people into a sense of incomparable, greatly affecting the overall effect of the later period. The whole case design is to bring this link into the overall design, so that the whole decoration design is unified as a whole, showing the best visual

and use effect. In the whole design process, the interior designer and the overall architectural designer should cooperate, and the interior designer can deeply understand the architect's intention, and then draw the interior design blueprint according to his conception. Not only that, the architectural designer must consider the practicality and scientificity of the internal use of the structure to make preliminary modifications when conceiving the structure, so as to maximize the rights and interests of users. The two must start the design simultaneously, and combine the structural layout of the two to consider the furniture placement and color matching, and choose the best to make the design plan the best.

4. Conclusions

At the present stage, in many Chinese architecture and interior design, there is a problem: in design, architecture, interior design and soft decoration are often divided into two parts. Architects will not analyze interior design when they design architecture, and they will not consider the existing structure and other characteristics of architecture when they design interior. In the interior design, the design of fire protection and electrical system is only regarded as the supporting facilities of the whole building, rather than as a part of the whole building, which makes the whole interior of the house unable to form an organic whole, resulting in the lack of unity of the whole building space, giving people a sense of regret. And there is a certain amount of waste. The whole house customized home furnishing industry will continue to develop. Standardization is the key to improve the quality of products and services, and it is also the foundation of industrial development. Further improving the standard system of the whole house customized home furnishing industry chain will standardize the market order and promote the healthy, sustained and stable development of the industry. The appearance of whole house customization integration has changed people's understanding of furniture selection and purchase. Furniture is an indispensable part of space, which is attached to space and exists independently. The overall furniture design is an attempt based on the concept of whole-house customization integration, and it is also a future trend. Throughout the process, the participation of users will play a vital role in the implementation of the design. The "tailor-made" design enables the integration of customization throughout the house and truly realizes the people-oriented design concept.

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