Analysis of indoor ecological landscape design principles

Bianling Zhang

Institute of art and design, Huanghe Science and Technology College, Zhengzhou, China, 450063 blzhhkj@163.com

KEYWORDS: Interior landscape, Landscape design, Ecological city

ABSTRACT. The application prospect and development trend of interior ecological landscape ecological interior landscape is a special part of the emerging landscape design in modern residential environment is the development and new life reflect. With the further deepening understanding of urban ecological environment and people relationship for its survival, indoor ecological garden role has been by the general health protection, the culture of the past to rest, viewing to environmental protection, pollution prevention, high development maintain indoor ecological balance and transformation. At the same time also can make full use of and development of indoor landscape resources, open up various forms of natural scenic area, improve people's quality of life. It marks the interior landscaping construction in China has gradually entered the maintenance of indoor ecological balance track.

Introduction

Indoor ecological garden mainly refers to indoor garden green space system guide to the construction of indoor ecological principle, make full use of indoor sunshine, air, land, water, nutrient, constitute a harmonious and orderly, stable landscape community. All kinds of landscape materials according to the science and art of requirements, using the method of landscape gardening, built an elegant, small garden landscape.

Design principle of interior ecological landscape

Indoor ecological landscape design principles can be summarized as: Harmonious symbiosis principle, energy optimization principle, minimize waste recycling principle, principle, sustainable self generation principle. Embodied in the design can be summarized in the following aspects.

The principle of ecology. The real art should not be copied and should be. The indoor environment design should not be intact copy of nature, and should be filtered through thinking of modern people, displayed in the new modern form. Should fully consider the niche characteristics of species, a reasonable selection of plant species, avoid direct competition between species, to form a rational structure, function perfect, stable population stratified community structure, not only make full use of the indoor environment of resources, and can form a beautiful landscape. In the interior ecological landscape design should also consider the rational use of materials, with the most close to the natural, harmless to the human body and energy saving materials to meet the needs of the product function, to achieve the best effect with the least amount of materials, to create a new form of art and the ecological environment, such as the use of materials absorb heat and cooling, ventilation and cooling by using the structure is currently being tried technology.

Landscape principle. Indoor ecological landscape should meet the aesthetic requirements of people, create both practical and beautiful interior space, the indoor landscape engineering of each functional area appearance, to meet people's spiritual needs. By means of the beautiful curve, curved surface modeling, spatial structure reasonably, Color composition, lighting configuration, space environment for people to provide a safe, comfortable, beautiful.

The artistic principle. Accumulation of indoor ecological garden is not green plants, not simply recover one's original simplicity, but art configuration of each ecological community in the aesthetic basis of garden art, is to further develop and improve. In the garden landscape configuration, should follow the unity, harmony, balance, rhythm of the four basic principles.

The principle of adaptation to local conditions. Indoor landscape engineering refers to the natural environment and ecological design people imitate artificial garden project produced in interior space. No indoor space environment is equivalent to the natural environment. The

difference is: small indoor space, the interior space of the temperature and humidity changes in smaller quantities. This decision for indoor landscape engineering of animal and plant must be able to adapt to this environment. Such as the use of "rocks" and other various stone base made of rockery, pond, water supply system, the use of electrical and mechanical manufacturing Fountain, waterfall, planting trees, breeding bird fish, install pavilions etc..

Application of types of indoor ecological landscape

Ecological Restaurant. Eco restaurant is a new industry developed in recent years, is the use of protective cultivation facilities can meet the plant growth demand function, combined with the landscape configuration and planting flowers, Vegetable & Fruit, landscape plant, create a green ecological dining environment, there will be food and landscape organically. Ecological restaurant called green restaurant, sunshine restaurant or green food Square, is the product of traditional catering industry and modern greenhouse engineering technology, landscape gardening, the modern gardening planting technology, civil construction engineering together, create a natural landscape environment is elegant comfortable, comfortable dining atmosphere, building and environment, the perfect fusion of man and nature, embody the wishes of contemporary urban people to return to nature, embrace the green. Good ecological restaurant is a dining place, is a food and beverage functional greenhouse sightseeing park, especially in the northern winter, greenhouse and fluttering snowflakes, the biting wind, everything depression, the restaurant is rich multicolored decorations, an idyllic scene, Spring is in the air., people in the tasting healthy delicious delicacies, away from the hustle and bustle of the city, cozy appreciate side intoxicating natural beauty, so that in the working state of life is hectic under the body and mind to unwind and relax, its unique leisure and elegant dining environment is incomparable with other traditional food form. Classification according to the type of landscape ecological restaurant:

Garden Style: with bridges, rockeries, fountains, waterfalls, bamboo pavilions as landscape tone. Folk custom type: using a particular genre (such as Dai, Korean etc.) of the typical style of restaurant landscape layout.

Tropical style: the tropical plants (such as palm, the coconut tree) copy of exotic landscape.

In the ecological restaurant, ventilation, cooling, heating and humidity control is the construction of the key. Simulation of plants, rocks Landscaping, water and living plant is the main landscape materials.

Ecological hotel. Ecological hotel to achieve "ecological", first of all, as a basic ecological greenhouse facilities, is the most typical green building, ecological garden is the pursuit of the "unity of man and universe" perfection, full of wild and extravagant luxury classic combination, a strong local flavor, the internal space is full of changes, is elegant the ideal business, leisure and entertainment.

The eco Club. The eco club is in the local environment to copy nature dominated atmosphere of the place, is widely used in foreign countries. According to the type of landscape style can be divided into: the original ecological landscape (pure natural landscape, exotic landscape (copy) of climate and ecological types of the opposite view) and in water as the theme of the landscape form. As a part of the whole ecological design, the use of external environmental factors play a more and more important role in interior design, make full use of the natural environment, save energy, protect the ecological environment. Such as office space in the design, "ecological landscape office" has become a popular office design style. It is a change in the past office boring, lifeless atmosphere, replaced gradually being filled with sympathy and humanistic care environment, according to the traffic flow, work flow, work relations arrangement of landscape, to create a more harmonious and relaxed, friendly atmosphere, more like home easily. "Ecological landscape office" will not only improve the local microclimate, and no longer have to suppress a sense of the old and the tension, and pleasant, it will undoubtedly reduce the fatigue in the work, greatly improves the work efficiency, promote interpersonal communication and exchange of information, stimulate the positive working attitude, filled with a vitality that office, reduce the work pressure of modern people.

Eco bath. Eco bath is to copy the natural ecological landscape in the building, to make people feel that bathing in the natural environment. The landscape to a tropical beach, natural lakes mainly

imitation. At present the domestic eco bath bath industry has just started, is the future development direction.

Indoor ecological park. From the indoor greening developed indoor ecological park, make indoor environment improvement has reached a new height, to make the life of people in the building of the obtained conveniently close to nature, opportunity to contact with nature, can enjoy the natural bath and is not influenced by the external climate change. Especially in the current many indoor garden often, catering, entertainment and rest, dance, fashion show and other activities together, to accept for the masses, which will give full play to the indoor ecological garden use value, to obtain a certain economic benefit and social benefit. Therefore, there are broad prospects for development of indoor ecological park. Indoor ecological garden size generally will not be great, so the more we should maintain the ecological environment, layout mostly plants. Ecological garden design is the main content, landscaping, group of scenery, and landscaping should be determined prior to conception, and the key lies in the creation of ecological garden landscape artistic conception. Garden plants in the shape, color, quality, scale and other aspects differ in thousands of ways, in different poses and with different expressions. Should use its height, thickness, color, and other factors, according to the indoor environment, or parthenogenesis, or group planted, or point of cloth, or arrangement, or dew or hide, either explicitly or implicitly, should enable the group of scenery structured, orderly level, affordable shades, echo each other. Modern indoor ecological park, should suit one's measures to local conditions, to improvise, innovation of Jiajing, accord with modern taste. Clever use of natural color, later, save historical legacy of appearance, can become an independent school, have a style of one's own.

Scene modes of indoor ecological landscape

Indoor ecological landscape common garden with king way: The water bureau group of scenery, scenery, build the rocks ornamental plant landscape, pavilion landscape, and landscape architecture etc.. Should the landscape and the decorative techniques together, to create natural, beautiful, comfortable landscape works, to indoor environment, landscape harmonious.

Mainly in stone interior garden. Indoor gardens often rocks constitute the Shi Jing, usually with Nishiko Kawashi and Rhapis excelsa accompanied king, stone masonry wall, with a small pool and plant group of scenery etc..

With water as the theme of the group of scenery with water based group of scenery, water is the king, on the very edge of the pool with stone and green plants. The pool shape also is free circle smooth curve.

Potted plant landscape. Garden group of scenery is usually with a potted plant, according to the specific situations, using the request to display combined into view. Landscape design of indoor ecological garden, according to people with longing for nature, close to the natural psychological requirements, and layout according to the indoor environmental requirements, therefore in indoor group scene used in great quantities in landscape plants. The indoor arrangement of flowers and trees in a large space, can create a relatively small independent space, so that people in the room, and as if place oneself in nature. Indoor plants to choose easy to plant, resistance, resistance to seasonal changes in shade and body beauty, and leaf, plant small plants. Like a palm tree, rubber tree, sago cycas, Monstera etc..

Conclusion

Ecological city, ecological garden city, indoor ecological landscape construction had become the Chinese city building boom. Ecology experts think, any city is natural, humanistic, ecological combination of "ecological city", we must use the vision of building ecological city new and indoor ecological garden. For the foreseeable future human living mode of indoor ecological garden, is based on the future society, economy and technology available on the basis of history, it is the inevitable trend of the development of human society and the living area, is also the inevitable result of global, in order to achieve full human sustainable existence and development. Protect environment, establishment of indoor ecological garden is a city sustainable development.

References

- [1] Zhang Yong, The interpretation of the Rules of Formal Beauty in Landscape Design, Applied Mechanics and Materials. Vol. 409-410, (2013), p. 758-761
- [2] Yang Ou, Liu Jun, Guang Xiao Ping. [J]. road traffic problems and Countermeasures of mountain city residential architecture in Sichuan. 2009 (04)
- [3] Duan Qingchao, Song Xinsheng, Duan Qingxia. Urban residential area parking facilities planning of [J]. Journal of Henan Urban Construction College. 2002 (02)
- [4] Wang Yanbin, The consistency problem seeking target and benefit main body -- cell specification residential urban construction rethinking [J]. urban problems. 1996 (03)
- [5] Wang Chaoying, Talk about the Association for science and Technology Forum elderly outdoor leisure environment design of modern residential area in the city of [J]. (second half). 2008 (03)