



RESEARCH ARTICLE

PORTABLE GARDEN COMPLEX IN PROTECTED URBAN AREAS

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ABSTRACT

It is very risky to arrange green lands and install urban furniture at touristic regions. Moreover, these areas are functional for only 3-4 months per year by visitors. The goal of this study is to develop a "portable garden" concept where green islands and urban furniture are used. At the end of the theoretical study, three sample portable gardens were designed using 3dsMax software. It is expected that the study will contribute to the environmental planning of protected urban areas in the future. The introduction of portable gardens could protect existing Cultural and Natural Properties of the region so they can accessible to the next generations. The innovation of the present study is expected to contribute to the urban areas that are under protection.

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INTRODUCTION

According to Buyukoksal (2012), today all scientific disciplines have begun to question themselves, the phenomenon of conservation of natural and cultural environments requires a more complex and dynamic approach when compared to other fields of expertise (Akin et al., 2015). For this reason, one cannot consider urban furnishing in reference to contemporary settlements only since one cannot overlook the existence of environments which consist references to many civilizations and which present many riches of cultures and nature. Because of this reason, contemporary settlements co-exist with historic/traditional urban tissue and underground/overground archaeological elements. This co-existence is an important factor for the design of urban furniture elements (Asatekin and Asatekin, 2003).

In literature, usage of urban furniture type and style given under four headings:

- Transient Usage,
- Stationary Usage,
- Functional Usage,
- Ancillary Usage (Asatekin, 2001, Bilen, 2004, Akyol, 2006, Ozturan et al., 2014, Kaya et al., 2018).

In addition to these 4 topics, the topic "portable" is also used in this study because the Garden Complex, which is created especially for this study, is designed to be used during the summer months and only in protected urban spaces. During historical environmental planning, urban furniture should be placed so that the site is determined by uniting monumental open lands with natural lands. During these unions, historical environment should be amplified by utilizing the urban furniture in spatial dimensions (Erturk, 2003). In an historical environment, a brand new design and urban furniture design do not include similar perceptivity. Your brand new design is either compatible with or contrasting to the environment or else replicating the forms that are already presented in the site. The urban furniture used in historical places should be in compliance with the identity, color, texture and material of the site. In certain circumstances, a certain harmony can be achieved by creating contrast, which should be in forms of special designs and at a quality of not creating visual pollution or incompatibility. Certain standard products might be used in these sorts of sites. Nevertheless, one should concentrate on creating special designs for sites (Akyol, 2006). Green land layout and urban furniture in tourism areas with cultural assets are sensitive actions. Tourists densely visit these areas and the major income of the region has been from tourism. The number of landscaping studies that will visually enrich these areas and enable comfort for tourists is increasing day by day.

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In this study, green land islands that will minimize the negative effects on cultural assets in touristic areas and portable (temporary) garden complex where urban furniture may be used shall be described and a comprehensive analysis with sample models shall be provided.

MATERIALS AND METHODS

Tourism regions with cultural assets in Mediterranean and Aegean Regions of Turkey have been chosen as the case area. Portable (temporary) garden model has been developed in these regions after 20 years of field studies and observations. These gardens have been modeled in three dimensions using 3dsMax software.

1st Design Concept

Designer: Yasemin Sarica

Concept: Timeless ships

It is a design which can be applied after the experts determine the lighting areas in tourism regions with cultural assets. The furniture which is designed as a system that is open during summer months and closed during winter months have 2 garbage bins, 2 lounge areas and 1 lighting. It has been designed to have an iron garbage bin, iron lighting pole and first class pinewood lounge area and external cover. Using electrostatic painting in coloring the design shall extend the lifespan of product. Different versions of this system have also been tried. Lounge area-flowerpot or just flowerpot may be used at parts where it is not allowed to place a garbage bin (Fig. 1).

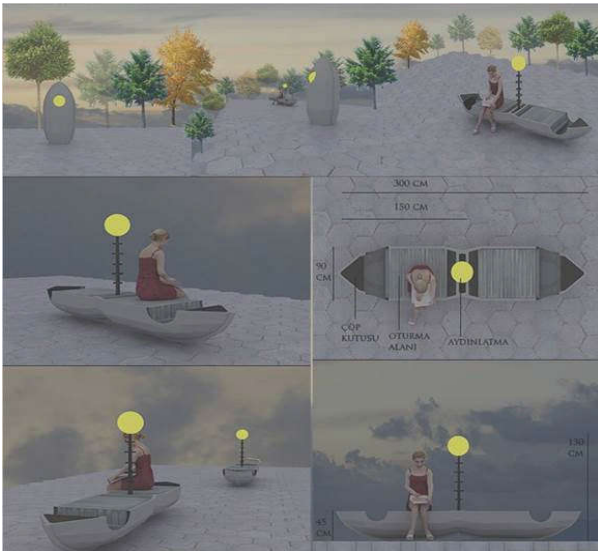


Figure 1. Timeless ships by Yasemin Sarica

2nd Design Concept

Designer: Cagatay Ozer

Concept: All time present artifacts

The design shall preserve its 7x3 m standard container size when it is closed. When it is opened for use, it shall cover an area of 7x8 m. This means on average 20 people can sit in this unit.

The upper part of mobile amphitheater shall provide the power need of user (such as mobile phone battery) with the solar panel. It is aimed to color the environment with the ornamental plants placed on open wings. Moreover, it is aimed to prevent environmental pollution with the garbage bins on side wing (Fig. 2).



Figure 2. All time present artifacts by Çagatay Ozer

3rd Design Concept

Designer: Olcay Turkey

Concept: Meander (art)

Today's building/structuring; temporary outdoor social events make urban furniture a necessity. This design is based on Lycian mosaics. It is thought to be produced with light plastic materials or composed materials. When the units without wheels are reversed, they transform into pot, green area floor or bench. Metal or plastic lightings may be placed in the slots within the unit. The garbage bins prepared in the same form have separated internal bins for glass, paper, and organic garbage (Fig. 3).

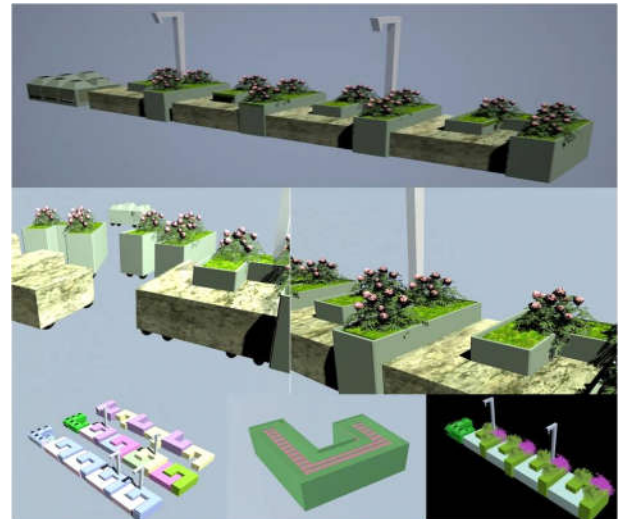


Figure 3. Meander (art) by Olcay Turkey

Conclusions

The design and application of green areas and obligatory urban furniture (such as benches, garbage bins) have always been adventurous issues. For instance, one of the great risks is the difficulty of catching harmony with the historic fabric. Furthermore, there is always a certain possibility to find historical artifacts during diggings. This study analyses all such risks in order to suggest a model solution. Portable (temporary) garden complex is a very new urban design model. Therefore, it is very important for touristic regions to discuss this model in depth. This pioneering study has been carried out to discuss portable (temporary) garden concept, develop and apply a model.

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