

Glass and its effect on plastic Processors for the design of multi-purpose residential units

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An introduction

The total current container in the top 100 container ports around the world in 2013 reached 5130 million containers.

An increase of 3.3% over 2012 TEU (Twenty-foot equivalent unit)

- Alexandria port ranked No. 89 with a total of 1.5 million TEU in 2013, an increase of 3.1% over 2012, reaching 1.4 million TEUs. While East Port Said Port ranked No. 34 in this year's list, advancing four positions from last year's list by 4.1 million TEU, a 12.9% increase over 2012 (3.6 million TEU). The port of Alexandria ranked No. 10 among the top 10 ports in the Mediterranean Sea for container circulation "handling". The port of the Spanish Caspian ranked first with 4.5 million containers. East Port Said Port is the third largest port in the Middle East. No other Egyptian ports were shown in the report. Damietta Port was ranked No. 98 in the 2012 Report and No. 94 in the 2011 TEU Report, reaching 1.2 million.

It is estimated that the number of containers that are no longer suitable for transport by 10-13% of these containers cause environmental problems and a Not a little of economy is wasted so it was thought to benefit from recycling and using new designs and technical treatments using glass destinations to convert them into housing units suitable for residential purposes In tourist resorts or administrative accommodation in construction or oil companies operating in remote areas.

The study Problem:

The existence of a large number of freight containers not exploited and in a bad condition and not suitable for shipping or transport, causing significant environmental and economic damage.

The importance of studying:

Achieving environmental equilibrium and increasing the rate of economic growth by reusing these damaged containers with a variety of architectural formulas and innovative technical treatments.

Purpose of the study:

Implementation of new design treatments using glass and contributing to the transfer of such waste to residential entities suitable for tourism purposes in the resorts in Siwa, for example, or in the administrative purposes of oil companies and contractors in the desert or outside the space and the urban scale.

The limits of the study:

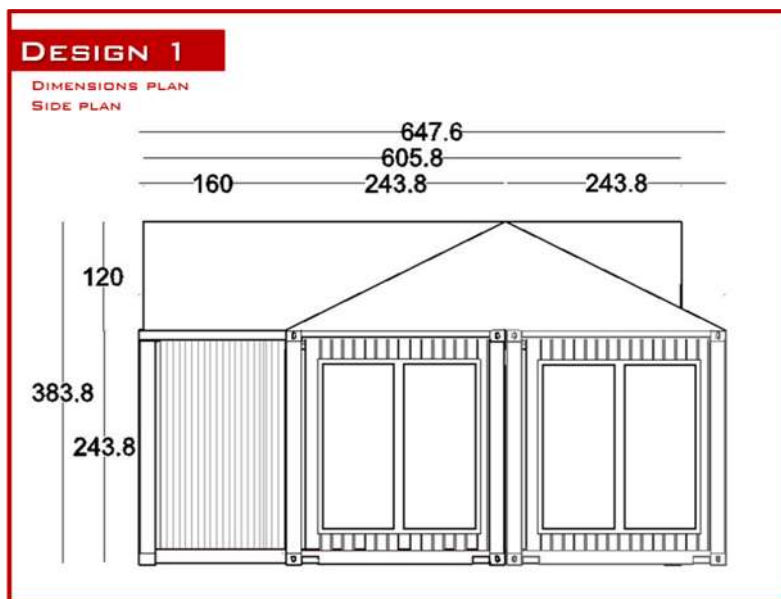
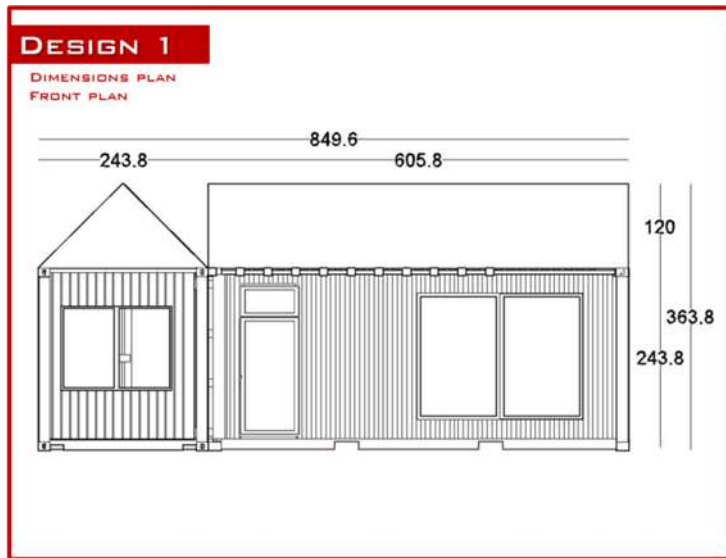
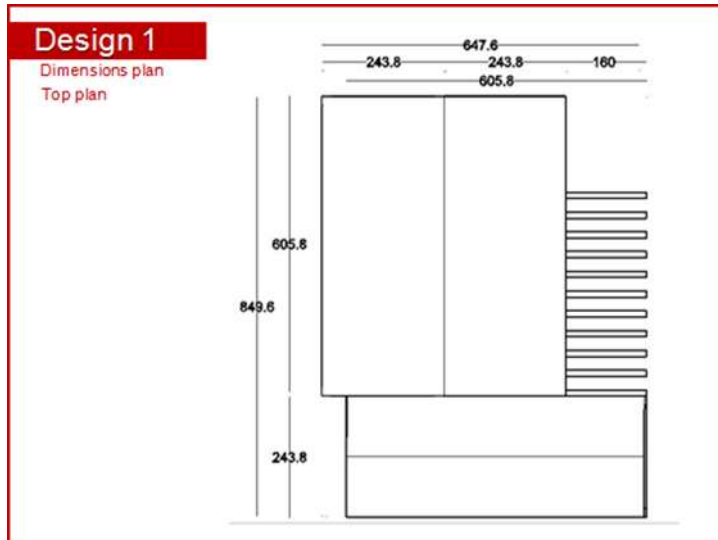
The study is combined in the re-exploitation of space and innovation and design ideas, especially those container interfaces suitable for the ideas mentioned above.

Study Approach:

The study follows the analytical approach to the economic studies of the container movement and the experimental approach to reach solutions and design ideas for changing the reality of these containers and slapping them for residential purposes, whether tourist or administrative.

Keywords: glass - design - container





Recommendations:

The research recommends using the container to transfer it to a place of residence and place of residence with the natural environment around it and use the glass material to solve the problems related to the heat of the house by using multiple types of glass reflector or glass smart and also the treatment of doors and windows with different glass techniques such as the lover of bullets or drilling to allow light Inside the house and working to bring the integration between home and abroad.

The study recommends increasing the awareness of the availability of green design in the present day in designing designs to convert containers to environmentally friendly homes within the city to solve the problem of slums, providing accommodation for many people at a simple price compared to current or outbound tourism and tourism cities. The house has all the comforts and living of having all the structural elements, furnishings and finishes that can be easily built anywhere.

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