

Design Trends of Glass Balusters According to Fixing Considerations

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Abstract:

Glass balusters have become an important architectural vocabulary for both interior and exterior architecture. It is now found in many architectural elements such as stairs, balconies, windows, corridors, etc., and due to the need to add new innovations in the field of glass balustrade in architecture, hence comes the importance and need to focus on it as one of the areas of glass design for architecture.

The research presents innovative glass units for the balusters and suggests some solutions to the problems facing the designer and the executor, so that this product comes out to the markets as expected and achieves the purposes for which it was made. There are many methods to produce these new glass balusters units, each of which has its considerations during production processes, including regards to glass itself, or for the type of molds used, or the dimensions of machines, including aesthetic aspects, and installation methods as well. This research is exposed to the requirements for installing the proposed baluster units and their production considerations that affect their design from the outset.

In this research, the installation of units in the stair was chosen as one of the architectural elements that require a lot of study to suit the types and methods of installation.

Research problem: -

The difficulty of installing the proposed glass baluster units designs in traditional ways.

Research objective: -

To identify the relationship between the methods of producing the proposed design trends of the glass handrail and the ways in which they are installed in place.

The importance of research: -

Solve problems of installing quantity-producing glass baluster units to facilitate installation and show the most appropriate production and installation methods for each design trend, so that the task of installing them in the stairs becomes easier.

Keywords: balusters, stairs, installation, glass production, architecture accessories.