

Use of modern technical developments in the design of hotel facilities

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Introduction. Modern construction and design including accommodation, gradually moving away from conventional concepts are increasingly used instead of building panel gantry windows with panoramic views, Glass mobile partitions, sliding systems. However, the need to conduct energy-efficient economy and minimize the cost of the accommodation facilities creates the unique perspective of designing buildings using the latest technical and architectural developments.

Materials and Methods. To justify the relevance of using smart monochrome glass design hotel management schools applied methods of syntactic and semantic analysis and the analysis in terms of the psychology of perception. Application of these methods proved that in this study are faced with questions of interpretation human environment. The study was elaborated literature semiotics of architecture, psychology of perception of color, form, space. In particular, it works R. Arnheyma, J. Shifman, M. Deribere, G. Frilinha and K. Auer.

Results. Smart glass (eng. smart glass, also used the name "monochrome glass", "electrochromic glass", "smart glass," "glass with variable properties") - a form of glass materials are composed of different chemical materials used architecture and manufacturing for the manufacture of translucent structures (windows, walls, doors and so on. d.). Glass is able to change their optical properties (transparency) by changing the external conditions: light, temperature or supply voltage.

Today one of the latest trends is "smart glass" because the developments of smart glass in the world received considerable attention, and the market is currently booming. So from 2010 to 2016 years it grew by 250% to 500 million dollars. Projected foreign companies think the market size could reach 3 billion dollars in 2019.

The use of "smart glass" reduces heat loss, minimizing the cost of air conditioning. Given translucent natural ability, we can talk about reducing the cost of providing artificial light. Similar problems and solve ordinary glass, but in this case it is a broader functional capabilities. Being in a transparent state, a glass in the room does not allow ultraviolet rays that helps create a healthy microclimate.

Conclusions. Hence, the relevance of the use of smart glass in the design of facilities the hotel industry is dictated by trends in architectural and engineering market, which indicates the broad functional capabilities in the operation of high-tech material - smart glass, which saves financial costs, creates an aesthetic coherent design of the hotel and directly contributes to a comfortable stay guest in the building.

Literature.

1. Коваль О.В., Мурзін А.В., Наумець І. І. Застосування монохромного смарт-скла при проектуванні закладів готельного господарства. / ScientificWorldJournal, Issue №14, Vol.3 – С. 82-86.