

Energytectonic properties of dome structures in architecture

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Abstract The purpose of the article is consideration of the phenomenon of dome in the context of modern architectural spatial formation, in particular, related to forming of energy efficient architectural environment. It is suggested to consider the complex of characteristics of dome constructions, that answers the terms of resource efficiency (including energy efficiency). Proposed term of “energytectonics” links technical, technological, operational, structural, geometrical characteristics of effective dome constructions and their aesthetic quality. The aesthetic value of such dome constructions consists in their information optimality that is one of constituents of semantics of domes in architecture.

Keywords Dome structures, energytectonic, resource efficiency