

Evolution of Flat Roofs

Author(s): Șt. Vasiliu

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Abstract text:

Roofs are constructive subassemblies that are located at the top of buildings, which together with perimetral walls and some elements of the infrastructure belongs to the subsystem elements that close the building. Roofs must meet resistance requirements to mechanical action, thermal insulating, waterproofing and acoustic, fire resistance, durability, economy and aesthetics. The man saw the need to build roofs from the oldest ancient times. Even if the design of buildings has an empirical character, are known and are preserved until today constructions that are made in antiquity, by the Egyptians, Greeks and Romans with architectural achievements, worthy of admiration and in present time. General composition of civil construction has been influenced throughout the evolution of construction history by the level of production forces and properties of building materials available in every historical epoch. For over five millennia, building materials were stone, wood and ceramic products (concrete was used by the Romans only as filling material).

Key Words:

Flat roof; envelope; green roof; membrane.

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Author(s) Information

Șt. Vasiliu

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Concrete, Materials, Technology and Management.

Email: Vasiliu_Stefan@gmail.com

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