

OPINION

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Member of the Academic Jury, with Decree № 590-ПД/25.10.2019

By the Director of the Institute of Art Studies, BAS

CONCERNING: The dissertation of architect VESELINA MIREVA on the subject: "PAPER IN ARCHITECTURE. TENDENCIES AND INNOVATIONS" for awarding the Doctoral Degree in Professional Studies 5.7 Architecture, Construction and Geodesy, Academic Specialty "Theory and History of Architecture"

General description of the dissertation

The presented dissertation "Paper in Architecture. Traditions and Innovations " consists of 139 pages (text and illustrations): introduction, 3 chapters, conclusion, illustration application. The bibliography contains 19 titles in Cyrillic; 16 Latin titles; 5 laws, ordinance, statutes; 33 online sources and additional literature: total of 46 titles.

The relevance of dissertation is determined by the increasing importance of the use of paper in contemporary architecture. Particularly relevant is its use in the field of temporary structures needed in natural disasters or for temporary needs in various events. A particularly valuable feature in this respect is the possibility of its relatively easy reuse and recycling.

Subject of the study are the different architectural forms using paper, with an emphasis on revealing its influence on contemporary architectural tendencies, new directions of application of the material, extending the traditional boundaries of its use in construction and architecture.

The aim of the study is to identify trends in the application of paper material in architectural practice. This is done on the basis of an analysis of a selection of realized characteristics or project models. Systematization and classification of their characteristics is offered.

Logically, in view of the stated goal, the tasks of the study are formulated. They are aimed at systematizing the properties of paper that make it suitable material for the realization of a specific typology of architectural forms; clarification of trends and forms of application in the world and in Bulgarian practice.

The research is developed in three chapters, which consistently reveal the contemporary field of application of paper in architecture, with an emphasis on the interpretation of traditions and modern innovations.

Chapter one provides an overview of the history of paper and its application in various fields. The research focuses on its use in architecture and, above all, in temporary architecture. It justifies its application in this field as a material that meets 3 modern concepts in architecture: connection with nature, with traditions and the tendency to reduce the weight of the used materials. A convincing illustration of the place and role of paper in the realizations of temporary architecture is the presentation of this aspect by the art of the Japanese architect Shigeru Ban, in the words of the author of the dissertation - the main inspiration for the research.

Chapter two looks at the application of paper in temporary architecture in two main areas: disasters and festivals. These two main fields of application, which are in themselves opposite in theme and expression, are analyzed sequentially in order to express the specificity of these temporary architectural objects in their realization with the participation of the paper material.

The works of architect Shigeru Ban in the field of disaster architecture and festival architecture, presented through analysis of selected realizations, was used to express the possibilities of using paper in these two fields of creative expression.

Chapter three examines the influence of traditions on architectural creativity and their interpretation in contemporary architectural contexts, again using the work of Shigeru Ban as the basis for analysis. As a result, several principles that characterize the connections and influence of traditions and contemporary architecture have been made:

- Traditions are the basis of the present and their contemporary interpretation leads to up-to-date solutions;
- Literally copying traditions in contemporary architecture is the wrong approach;
- The use of modern or innovative materials has the potential to open up new areas of expression and experimentation.

This chapter analyzes the constructive and formative role of paper in architecture. The proposed systematization of the various forms by which paper is used in construction and architecture - alone or in combination with other materials is innovative. Architectural forms and structures for which the use of paper is appropriate are considered at three interrelated levels: the level of detail, construction and architectural form.

The conclusions of the dissertation summarize the main findings and results of the study.

The main conclusions regarding the possibilities of using paper in architecture

characterize it as an alternative to traditional building materials, especially in the field of temporary architecture, with some important for our time properties, namely:

- Material readily available for easy recycling;
- Reuse of recycled paper - recovery of waste;
- Use for another application when its functions are exhausted.

At the end of the final part of the dissertation the conclusions about scientific novelty and importance of the work are formulated.

Contributions of the dissertation

The main scientific and applied contributions of the dissertation are as follows:

- Systematizing paper application capabilities in architecture.
- Discovering and summarizing the ties between paper and traditional architecture - the importance and practical characteristics of paper.
- Classification of architectural joints and details using paper.
- Initiating a professional discussion on a national level about the role of paper in architecture and, more generally, the relationship between temporary and permanent architecture.

Publications

Architect Mireva has 5 independent publications and three in co-authorship in the field of dissertation.

Conclusion

The dissertation presented by architect Mireva demonstrates her abilities for independent research and of in-depth theoretical knowledge in the field.

The work contributes to the enrichment of existing scientific knowledge, as well as opportunities for applications in architectural and construction practice. It fully complies with the requirements of the Act for the Development of the Academic Staff in the Republic of Bulgaria and the Regulation for its implementation.

I give a positive assessment of the dissertation work of Arch. Veselina Lyubomirova Mireva and I propose that she be awarded the Doctorate degree in the professional field 5.7. "Architecture, Construction and Geodesy", in the specialty "Theory and History of Architecture".

The opinion was made by:

Prof. Dr. architect Asen Pisarski

18.01. 2020

