SUSTAINABLE INTERIOR DESIGN OBJECT DESIGN FEATURES: METHODS, MATERIALS AND CONSTRUCTION COMPOUNDS

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Research purpose. Recently, more and more guidance for designers/planners on designing a new sustainable object and the requirements for its production-life-recycling cycle, on the circular economy, etc., has been emerging. However, even the designers specialising in this trend tend to misinterpret "sustainable" design. They create unique (unique by definition does not comply with the eco-design ideology) eco-objects that do not meet the requirements of the "from design to disposal" cycle as a whole; combine construction materials incorrectly; create an object that does not meet the requirements of sustainable design.
There is a lack of illustrated educational examples in Lithuanian or foreign publications on creating the proper sustainable design object. There are no publications that describe construction and material compatibility features.
This study aims to analyse interior design characteristics, eco-objects' structural compounds and materials, and their combinations using eco-object design methodologies. The study also aims to analyse documents and scientific literature on the design of eco-objects, create examples of different types of interior eco-object structures based on the research, and provide a set of descriptive and visual material for the eco-design study.

Keywords: eco-object construction, eco-object design methodology, eco-object materials, interior eco-objects

Research Methodology. Analysed scientific literature and documents (standards and technical requirements), conducted empirical research (preparation of drawings and schemes, technical calculations, visualisations).

Results / Findings. In the research framework, under the action programme 09.3.3-LMT-K-712 "Development of Scientific Competences of Scientists, other Researchers and Students through Practical Research Activities" the project "Studio of Interior Eco-object Design: Features and Combinations of Structural Compounds and Materials" was developed. A student of the Design study program was involved in the project activities. The project deals with the problem of qualification of young researchers related to the incorrect design of ecological interior design objects, insufficient knowledge and skills to design meeting sustainable design methodologies, requirements and principles.
A study has been prepared after analysing the latest methodologies for designing eco-objects, their requirements, and compliance with EU standards. The study provides an investment in solutions for public well-being and environmental sustainability, illustrated visualisations of examples of interior design eco-objects designed for industrial production, structural compound drawings, diagrams and technical descriptions and references to the relevant requirements.

Originality / Practical implications. The results of the study are relevant in both national and international contexts. A study has been prepared as a methodological tool suitable for studying designers. The tool will help create sustainable interior design objects suitable for industrial production that meet the requirements. It is an investment in solutions for public well-being and environmental sustainability.