Design Standards of the Architectural Surfaces Using New Cladding Materials

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Abstract

The research highlights the Design Standards of the architectural Surfaces using New Cladding materials. The research aims to achieve the functional benefit besides achieving the aesthetic aspect through the deep study of raw materials, smart materials, the knowledge of each application and how they interact with the environment. And to achieve the concept of sustainability through the optimal employment of these materials The research assumes that enhancing the designer's architectural understanding through his deep and complete understanding of all modern techniques and materials enables him to develop basic design criteria to achieve the best interaction of architectural surfaces and environmental space around them. There is many evidences of the impact of the design process in general and the thought of the design of architectural surfaces, especially that this impact was directly motivated by the designer to go to this technology to know its benefits, Or indirectly as a response to the impact of modern technologies on the development of life, society, interior design, and architecture in general, such as Thermobimetals, Alucobond, Coagulated Glass and Aeragel Glazing, etc. The research finds that the importance of the interaction between technology and design leads to creativity in architecture, where the smart materials add aesthetic value of the building and give a distinctive texture of the outer shell, finally the research recommendation is designers should be continuously updated with all brand-new in design, materials, techniques and modern technology

Keywords

Architectural Surface- Smart Materials- Thermo bimetals- standards- Composite Fibers

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