

Building Envelope Engineering and Typologies for Complex Architectures: Composition and Functional Methodologies

Authors : Massimiliano Nastri

Abstract : The study examines the façade systems according to the constitutive and typological characters, as well as the functional and applicative requirements such as the expressive, constructive, and interactive criteria towards the environmental, perceptive, and energy conditions. The envelope systems are understood as instruments of mediation, interchange, and dynamic interaction between environmental conditions. The façades are observed for the sustainable concept of eco-efficient envelopes, selective and multi-purpose filters, adaptable and adjustable according to the environmental performance.

Keywords : typologies of façades, environmental and energy sustainability, interaction and perceptive mediation, technical skins

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