

## **Tectonics in Sustainable Contemporary Architecture: An Approach to the Intersection between Design and Construction in the Work of Norman Foster**

**Authors :** Mafalda Fabiene Ferreira Pantoja, Joao Da Costa Pantoja, Rui Humberto Costa De Fernandes Povoas

**Abstract :** The present paper seeks to present a theoretical and practical reflection about examples of contemporary architecture in the world context where concerns about the planet become prominent and increasingly necessary. Firstly, a brief introduction will be made on the conceptual principles of tectonics in architecture in order to apply such concepts in a perspective of analysis of the intersection between design and construction in contemporary examples of Norman Foster's architecture, once his work has demonstrated attitudes of composition that concerns about the place, technology, materials, and building life. Foster's compositions are usually focused on the role of technology in the process of architectural design, making his works a mixture of place, program, construction, and formal structures. The main purpose of the present paper is the reflection on the tools of theoretical and practical analysis about tectonics, optimizing the resources that allow cultural anchoring and creation of identity. Also establishing relation between resources, building life cycle and employment of correct materials, in order to find out how the tectonic concept can elevate the status of contemporary architecture, making it qualitative in a more sustainable context and adapted to current needs.

**Keywords :** contemporary architecture, norman foster, tectonic, sustainable architecture

**Conference Title :** ICSAUD 2019 : International Conference on Sustainable Architecture and Urban Design

**Conference Location :** Rome, Italy

**Conference Dates :** December 12-13, 2019