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“CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD”

Analysis of the Application of AQUA Certification in Civil Construction in Brazil

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Abstract

The accelerated development of constructions of buildings in large cities brings degrading impacts on the environment and people's lives. One can consider another point of observation concerns not only the volume of inputs used, but the strong consumption of resources like water, electricity, discomfort in the vicinity of the project, ventilation. Society as agent of change has required the use of these resources better entrepreneurs associated with the economy, reduction and even total replacement forcing streamlined and sustainable innovation. In order to improve the quality of the built environment and minimize its negative impact on the natural environment, various methods for measuring sustainability is being developed by different countries and regions. The study aims to analyze the methodology High Environmental Quality (HEQ) of international review and adapted to Brazil by Vanzolini, its criteria, definition of parameters for the management and monitoring, structure and applicability. It is discussing its convergence with the dimensions of sustainability: social, cultural, environmental and economic criteria and the certification and maintenance of the title. As a result it was possible to verify which requirements are suitable for the methodology of sustainability certification, policies and proposed criteria, management and future studies.

Keywords: *Civil Engineering, Sustainable Construction, Green Buildings, Certification HEQ.*
