Application of BIM Technology in Binhu Runyuan Prefabricated Residential Project (Part 2) Postprint

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Abstract

BIM technology enables realistic simulation of various stages throughout the project lifecycle through the creation of data-driven models, and this characteristic constitutes a crucial prerequisite for the implementation of prefabricated construction projects. During the design phase, the provision of high-precision information-integrated deliverables represents a key challenge and difficulty in prefabricated building design. Building upon the deliverables from the design party to conduct production management design, thereby achieving industrialized and systematic production of prefabricated components in prefabricated projects, constitutes another critical task for project implementation. Based on "Application of BIM Technology in the Binhu Runyuan Prefabricated Project (Part I)", this paper leverages multi-disciplinary collaborative design deliverables to explore how to interface BIM data from the design phase with production management systems, and discusses the realization of industrialized production of prefabricated components through production management design.

Full Text

Preamble

The preamble text contains only mathematical placeholders and corrupted characters that cannot be meaningfully reconstructed into coherent academic prose.

Note: Figure translations are in progress. See original paper for figures.