

PREFABRICATED VOLUMETRIC MODULE DESIGN, FABRICATION, ASSEMBLY AND INSTALLATION METHOD

Abstract

The present disclose a method of designing, fabricating, assembling and installing prefabricated volumetric modules for building construction. The steps comprise fabrication of modular floor slab, profiled ceiling slab and profiled wall panels; assembly of the modular floor slab, profiled ceiling slab and profiled wall panels using mechanical connections to produce prefabricated volumetric modules; installation of the series of prefabricated volumetric modules on a building under construction; installation of reinforcements and casting of concrete within the formworks formed by adjoining prefabricated volumetric modules; repeating the afore steps for subsequent floors till completion of building construction. The present disclosure also relates to the structural design and analysis of the building constructed with these prefabricated volumetric modules.

FIG 4B