

Investigation of Prestressed Hollow Core Slab Load Table Using Magnel's Equation

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ABSTRACT

Prestressed hollow core slab is widely used in the construction industry as a load bearing concrete structure member. They can be used in virtually any type of building that requires suspended floors and roofs for residential, commercial and industrial buildings and can provide a variety of benefits. Eastern Pretech Group is one of Malaysia's largest industry players in precast concrete that has been spearheading the use of advanced precast concrete construction technology in Malaysia. The hollow core slab product generates a huge portion of the group's revenue and is one of their core products. In this research project, the group's hollow core slab products are the subject of the study. A different approach that is believed to be able to lead to a more economical and efficient design would be implemented to design the hollow core slab. To reach the goal of the study, the hollow core slab is designed as a composite member with concrete topping on it and a different set of the loading chart will be constructed and analyzed.