# Untypical Solution for a Prestressed Concrete Structures Inside The Hotel Building

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***Abstract*— In currently designed buildings, it is often necessary to locate large space, free of support, in the lower floors with a completely different structural system of higher floors. In a currently implemented design for the hotel building, the authors of the design have proposed a prestressed concrete structural system consisting of two slabs and reinforced concrete walls as webs. As a result, they have obtained the system similar to the one used in bridge buildings. The study presents design plans, discusses the problems encountered, presents the design parameters adopted and the results of static and strength analysis of selected elements of the load-bearing system. Based on the results and experiences drawn from the design, appropriate conclusions have been drawn.**

***Index Terms*—post-tensioning, prestressed concrete, building structure**

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