STRUCTURE MODIFICATION DESIGN OF HOSPITAL BUILDING WITH FLAT SLAB AND SHEARWALL SYSTEM

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Abstract

The hospital building has a very important function when it happens an earthquake where the building should stand and it can give a sense of safety and comfortable. In the planning of hospital buildings construction in this final project will use the “Tata Cara Perhitungan Struktur Beton untuk Bangunan Gedung (SNI 03-2847-2002)” and “Tata Cara Perencanaan Ketahanan Gempa untuk Struktur Bangunan Gedung dan Non Gedung (RSNI 03-1726-201x)”.

This hospital building was originally using “Sistem Rangka Pemikul Momen (SRPM)” method as the structure calculation. Modifications to be added is number of flooring that was originally three storeys to ten floors and the method of calculation using a flat slab and shear wall as one of its main structure. This building is designed using building system.

The Results that can be obtained are slab thickness 200 mm, 100 mm thick drop panels, with the use of a column dimensions of 800 × 800 mm. Shear wall is designed with a thickness of 300 mm.

Key words : Design, Modification, Building System, Flat slab and Shear wall.
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