



Application : Slab Strengthening

Project Location : Chonburi Province

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Sub-Contractor : Freyssinet (Thailand) Ltd.

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Project Commenced : 2011

## Project Background :

Due to the need to serve additional service load, two prestressed floors of a hospital building in Chonburi Province were strengthened by using carbon fiber and steel brackets. The carbon fiber strips were intended to carry additional bending moment and were applied at slab soffit with equal spacing in both directions. The steel brackets were attached at the columns under the slab to resist additional punching shear.



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## Project details :

Freyssinet (Thailand) involved the very beginning stages of selecting the best strengthening solution to the installation processes. Freyssinet introduced carbon fiber solution for the strengthening of bending capacity and steel bracket for the strengthening of punching capacity. The design calculations were done by Freyssinet, as well as the installation of the carbon fiber and the steel brackets.