

Project Brief

Kaningos 21 Hotel

Seismic & Fire-Resistant Upgrade



Athens, Greece
2004



Seismic and Fire-Resistant Upgrade of a hotel built in 1972 according to the first (1959) seismic code of Greece.

To provide a seismic upgrade to a higher seismic code (1985). Ductility and shear deficiencies of the columns at the lower levels. Bending moment deficiencies of the slabs at the highest level due to live load increase. A minimum amount of time of 4 months was available to complete the hotel strengthening renovation prior to the start of the 2004 Olympic Games.

Application of 3 to 4 layers of Tyfo® SEH-51A at the columns for ductility and shear enhancement. Application of Tyfo® UC carbon strips at the bottom and upper surfaces of the slabs for bending moment enhancement. Protection of the carbon strips against fire with the Tyfo® AFP (Advanced Fire Protection) System. Application of 1300m² of Tyfo® SEH-51A and 650m of Tyfo® UC carbon strips protected with Tyfo® AFP. The FRP application was completed in 3 weeks and the hotel opened for its customers 1 week before the opening ceremony of the 28th Olympic Games of Athens 2004.

Fyfe Co. LLC

Nancy Ridge Technology Center

6310 Nancy Ridge Drive, Suite 103, San Diego, CA 92121-3209

Tel: 858.642.0694 Fax: 858.642.0947 E-Mail: info@fyfeco.com www.fyfeco.com