

**DSI References**

**Owner** Fairmont Developments, Toronto, Canada +++ **General Contractor** Fairmont Developments, Toronto, Canada +++ **Contractor** Lower Mainland Steel, Vancouver, Canada +++ **Architects** James KM Cheng Architects Inc., Vancouver, Canada +++ **Consulting Engineers** Jones Kwong Kishi, Vancouver, Canada  
**DSI Unit** DSI Canada Ltd., Western Division, Surrey, Canada  
**DSI Scope** Supply of unbonded DYWIDAG Monostrand Tendons; technical equipment



## Rapid Construction Progress in Vancouver with DYWIDAG Post-Tensioning Systems

The Canadian coastal city of Vancouver, BC is not only an important sea port in the western Canada, but is also known for its high quality of life. Especially in downtown Vancouver, continuing construction activities prove the city's popularity as a place to live and work.

The Fairmont Pacific Rim project is centrally located on the waterfront in Coal Harbour. After its completion, this 48-story building will be one of the most expensive residential addresses in Canada. Fairmont Pacific Rim has a total area of approximately 93,000 m<sup>2</sup> and includes a hotel as well as parking, retail and residential space. The project features a five-star 22-floor hotel with 415 rooms and amenities, and 173 luxurious residential condos on the upper 26 floors.

For aesthetic reasons, the building has relatively few interior columns. Fairmont Pacific Rim is scheduled to be completed in 2009 after 40 months of construction, just in time for the 2010 Winter Olympics.

In order to have the structure completed in time, the majority of the post-tensioned slabs had to be constructed on a one week cycle. This was difficult because an average of 300 DYWIDAG Monostrand Tendons and 7,600m of type 0.6" unbonded strand had to be installed in each slab. The contractors all worked closely together, even using CAD files to prevent delays.

Construction was also made difficult by the project's being located in the busy downtown core next to the cruise ship terminal. During peak periods, shipments could not be delivered: the large transport trucks needed special traffic control to access the site and would have caused considerable traffic congestion.

