



BUSINESS ACTIVITIES

New Structures/Applications/Suspended Cable Roofs

General contractor :	PCL / Structal
Customer/Owner :	PavCo
Engineer :	
Freyssinet Subsidiaries	Freyssinet Canada Ltd
Start of works period	07/2010
End of works period	06/2011

PROJECT DESCRIPTION

BC Place Stadium is a multi-purpose stadium located in Vancouver, British Columbia, Canada. It originally opened on June 19, 1983 as the world's largest air-supported stadium, and closed for major renovation in 2010 after the Winter Olympic Games. The stadium is now the world's largest cable supported retractable roof. This structure has 36 nos. upper suspension cables and 36 nos. lower suspension cables, connected together with 540 hanger cables, act like the spokes of a bicycle wheel between the central node and the new peripheral steel structure erected on top of the concrete ring beam of the stadium. This 18 000t rim is made of 36 nos. masts reinforced by 72 nos. stay cables. The force of the suspension cables is balanced by a tension ring connecting the feet of the 36 nos. mast together. A membrane, which is fixed above the bleachers and retractable above the field of play, is tensioned on top of the complex cable net.



FREYSSINET MISSION

Freyssinet was in charge of the design, supply and installation of the cables and cable connectors of the new roof. Innovating erection methods and detailed sequencing were prepared to lift and tension the 2000t cable net in less than a year.