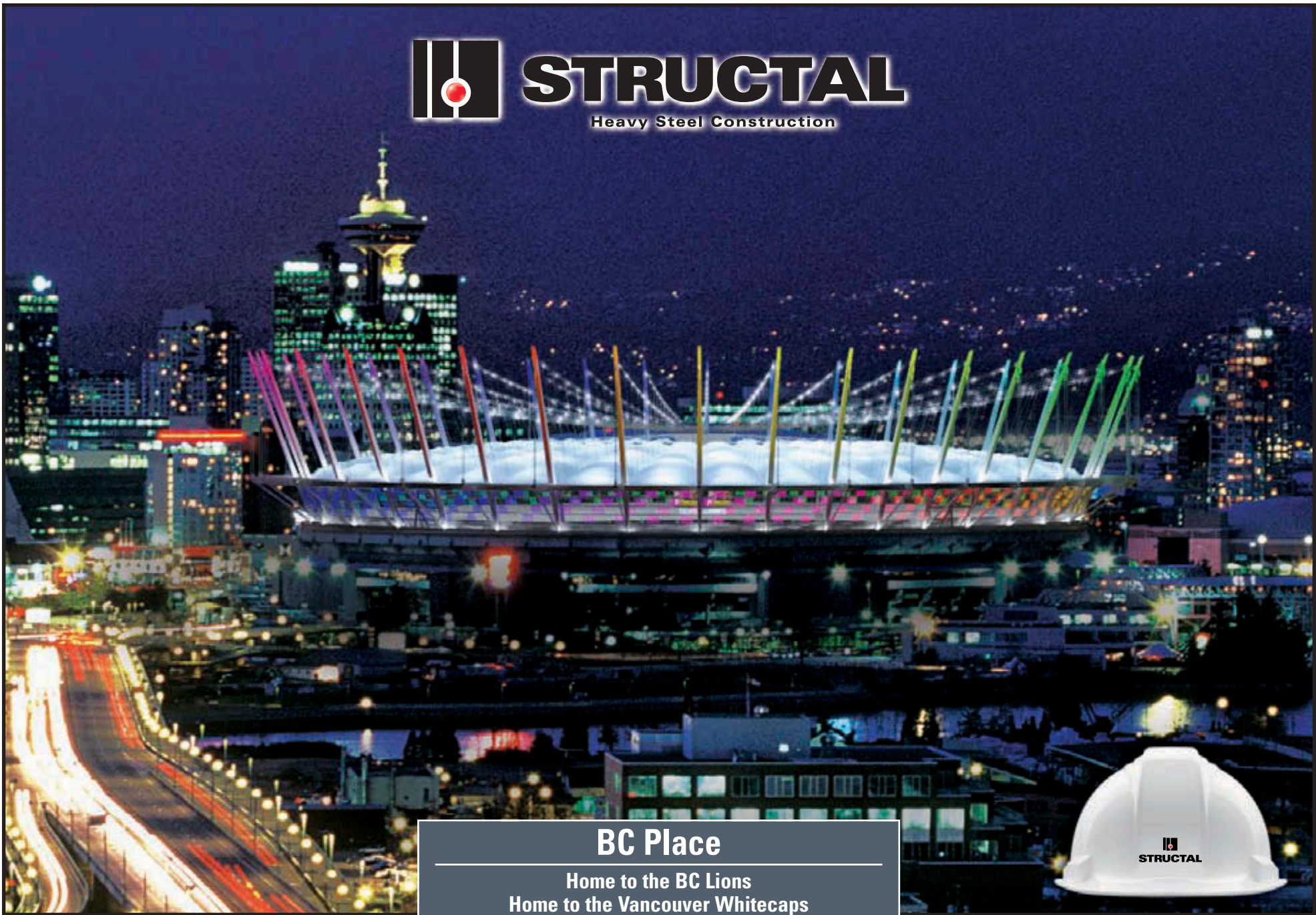




# STRUCTURAL

Heavy Steel Construction



**BC Place**  
Home to the BC Lions  
Home to the Vancouver Whitecaps  
Vancouver, BC



A division of Canam Group

# BC Place

Home to the BC Lions  
Home to the Vancouver Whitecaps  
Vancouver, BC

## People

- **Architectural firm:** Stantec Architecture
- **Engineering firm:** Geiger Engineers
- **General contractor:** PCL Constructors Westcoast Inc.

## Products and Services

The contract awarded to Structural-Heavy Steel Construction included design-assist, detailing and project management services as well as the fabrication and erection of the structural steel and cables for the retractable roof.

## Highlights

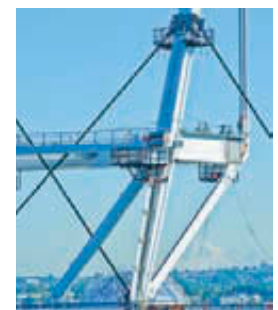
The 60,000-seat BC Place Stadium, featuring 22 miles (35 km) of 5.25-inch-diameter (12.7 cm) cables, is the world's largest cable-supported retractable roof.

A web of massive steel cables attached to a central node serves to open and close the roof. It takes between 15 and 20 minutes to open or close the roof.

The steel structure with its complex design also required the fabrication and installation of 36 masts, each approximately 165 feet (50 m) tall and weighing 120 tons.

Each mast rests on one of 36 spherical bearings fabricated by Goodco Z-Tech, another division of Canam Group. These bearings are designed to accommodate movements and rotations and resist unusual horizontal and uplift forces caused by snow, wind or seismic loads.

The position of each mast must be calculated down to the very last millimetre to ensure the proper functioning of the retractable roof system.



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