



Jawaharlal Nehru Stadium – Delhi, India

Asia's Largest Tensile Roof Supplied by Birdair, Inc.

The 60,000-seat Jawaharlal Nehru Stadium in Delhi, India now reaps the functional and aesthetic benefits of tensile architecture with a roofing retrofit from Birdair, Inc.

As subcontractor to Taiyo Membrane Corporation (TMC), Birdair designed, manufactured and supplied the 88 membrane panels that form the facility's 54,000 square meter tensile roof that spans over 240 meters. TMC provided the installation and construction supervision of the tensile membrane roof.

The stadium's new open-air roof is formed from PTFE SHEERFILL® Architectural Membrane. Manufactured by Saint-Gobain Performance Plastics, SHEERFILL is the first ENERGY STAR® qualified and Cool Roof Rating Council (CRRC) certified architectural fabric membrane. As an ENERGY STAR product, SHEERFILL can help lower air conditioning requirements in buildings, reducing peak cooling demand by 10-15 percent.

Earn 1 AIA SD/HSW LU Credit



A 1-credit hour AIA HSW/SD learning unit is available from Birdair with its continuing education course entitled, "Defying Gravity With Tensile Architecture" on The Continuing Architect. Learn about the benefits of tensile architecture, the different types of membrane materials, including Tensotherm, and the design-build process for creating a tensile structure.

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To provide unobstructed views for stadium patrons, a steel compression ring weighing more than 8,500 tonnes and extending 71 meters over the stands supports the tensile roof's [cable net system](#) and PTFE SHEERFILL panels without any perpendicular support from inside the stadium. The cable net system features 443 tonnes of pre-stretched cables with a length of 2,220 km in varying diameters, from 40 mm to 95 mm.

Jawaharlal Nehru Stadium originally opened in 1982 and was upgraded to meet international standards to host the XIX Commonwealth Games in October 2010. The refurbished stadium also features a high-definition television system, state-of-the-art lighting and an underground tunnel that runs the length of the stadium.



Planning your conference schedule for the New Year? We'll be at [Stadia Design and Technology](#), April 12-14, 2011 at the Los Angeles Convention Center in Los Angeles, CA. Visit Birdair at Booth #1844.

About Birdair

Birdair, Inc. is the leading specialty contractor of lightweight long-span roofing systems and tensile structures throughout the world, providing design-build solutions for architects and clients in all aspects of project design, engineering, installation and maintenance. Lightweight long-span roofing systems and cable structures can be attached to any building envelope and offer aesthetic and functional options to complement any exterior design. Birdair, based in Buffalo, NY, is a member of the Taiyo Kogyo Group, with operations serving North and South America and other international locations.

For more information about Birdair, call 1-800-622-2246 or visit www.birdair.com.