



SANTIAGO BERNABÉU STADIUM

PROJECT DESCRIPTION

The Santiago Bernabéu Stadium has undergone one of the most ambitious transformations in contemporary sports architecture. IASO has had the privilege of participating in this new stage, contributing its technical expertise in textile architecture through the design, manufacture and installation of the retractable textile roof crowning the new stadium. A project that synthesises innovation, engineering and spectacle, redefining the way sport is experienced in Madrid and around the world.

IASO was responsible for the design and implementation of the textile system that shapes the retractable roof, made up of ePTFE cushions capable of deflating and retracting, allowing full opening over the pitch. This advanced solution provides climate protection, optimised lighting and a futuristic aesthetic in perfect harmony with the stadium's new metallic façade.

Pictures: ©Real Madrid CF

CHARACTERISTICS

Material	ePTFE
Application	Stadiums and sports venues
Surface	5.755m ²
Architect	L35 + GMP Architekten + Ribas & Ribas Arquitectos
Year	2023

TECHNICAL AND FUNCTIONAL INNOVATION

IASO's intervention at the Santiago Bernabéu represents a technical milestone in mobile textile roofs. The system developed enables the automated inflation and deflation of ePTFE cushions, which fold through a mechanism synchronised with the roof structure. This solution combines precision engineering, climate control and ease of maintenance.

The modular design and applied technology ensure durability and resistance against wind, snow and adverse weather loads, without compromising the structural lightness characteristic of textile architecture. Coordination with the metal and mechanical structure teams has been key to achieving seamless integration.



INTERNATIONAL REFERENCE IN SPORTS ARCHITECTURE

The new Santiago Bernabéu has been widely recognised for its futuristic vision, multifunctional character and integration of advanced construction systems. In publications such as ArchDaily and The Plan, the stadium has been analysed as a model of urban and technological transformation. IASO's intervention is part of the set of innovations that have made this evolution possible.

