

Natural light in the „Blue Dome“ Theme Park

Exterior Light

Project. „Blue Dome“ is an unusual theme park in Abersee – on the south side of Lake Wolfgang in the Salzburg area of Austria – designed to bring to life aquatic fun and excitement in all its forms. Through an adventure dramaturgy, visitors encounter this natural substance in a more intense and vibrant way, taking strong impressions home with them. In addition, the construction itself should be integrated into the unique landscape of Lake Wolfgang by a lightness of touch and the ability to blend seamlessly into its surroundings.

Concept/Design. The original plan was to cover the entire 700 m² futuristic entrance and restaurant area with a wooden construction. However, during the course of the project, the potential for the positive effects of natural light became increasingly evident.

This led to a decision to utilize textile membrane roofing in the final design, providing weather protection as well as lighting and shade for the building.

Construction. Civil engineers had to take into account other factors such as the wind and anticipated snow covering typical in a mountainous region alongside the stability of the wooden truss construction and the roofing membrane. The material chosen was the specially coated PTFE membrane by SEFAR® Architecture. This weather-proof, high-tech, coated fabric with a light transmissibility of 65% is made from 100% fluoropolymers and is strongly resistant to UV light and physical deformation.

Project/Location: Abersee am Wolfgangsee, Austria

Engineering: ArtEngineering GmbH, Dr. Ing. S. Greiner, Stuttgart, Germany, www.greiner-engineering.com

Implementation: Hermann Meisel GmbH, Pinsdorf, Austria, www.planen-meisel.at

Fabric: SEFAR® Architecture **EL-65-T0** (previous description AR 24-50)

Photos: Dr. Ing. S. Greiner, www.greiner-engineering.com



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