



REIMS SWIMMING POOL

PROJECT DESCRIPTION

This project aims to provide a natural light entrance to the recreational aqua complex in the city of Reims. One of the main elements of the intervention is the roof that protects the complex. The aim is to create a space of comfort that has natural light and is protected from inclement weather; a recreational space at the service of users and visitors. The roof is a metal truss structure, with an exterior finish in white PVC sheeting; 8 elongated, elliptical geometry skylights of varying lengths open up in the roof; the membrane covering the skylights is made of a 3-layer ETFE sheet system with an inflated cushion.

CHARACTERISTICS

Material	ETFE
Application	Infrastructure and equipment
Surface	593m ²
Measures	8 units of different measures
Location	Reims
Architect	Marc Mimram Architecture
Year	2020

TECHNICAL DATA

The perimeter of each skylight is made of an aluminum frame, to which the 3-layer cushions are attached. In this configuration, these are mostly made from the following materials: 200µm screen-printed top layer with white hexagons, 250µm transparent flat middle layer and 150µm transparent bottom layer.

The intersection between the aluminum frames and the roof is finished with an inner aluminum sheet that supports

50mm of thermal insulation, with a top finish of RAL 9010 lacquered sheet flashing to match the aluminum frame, creating a monochromatic white finish between the ETFE screen printing, aluminium frames, sheet flashing and PVC waterproofing of the roof.

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