IASO® Better Outside

TEXTILE
ARCHITECTURE

VALLSUR SHOPPING CENTER

PROJECT DESCRIPTION

One of the improvements of the C.C. Vallsur was to replace the opaque dome covering with AN ETFE covering with solar control. Without a doubt it highlights the functionality of the solar control covering that lets you choose two values of light path inside.

A space that has gained in luminosity and gives life to the activities that are carried out inside. The upper and intermediate sheets are printed with designs that overlap. The solar control system moves the intermediate layer up or down, changing the passage of light and solar radiation into the building.

CHARACTERISTICS

Material	ETFE
Application	Comercial centre
Surface	490m²
Location	Valladolid
Architect	Inel 2000
Year	2013

TECHNICAL DATA

ETFE cushions with triple-layer solar control.

IASO puffy cushion system
It is constructed with two or more closed ETFE laminates in its perimeter and supported with a perimeter anchorage system. Requires an air inflation system in low humidity and at low pressure (250 Pa), which is produced by a unit consisting of fans and air distribution ducts.
IASO solar control system cushions, which by movable intermediate layers and with an upper layer and printed intermediate to modify the passage of light and solar radiation.

What is its dimension?
Normally the circular or square geometry cushions have maximum dimensions of 7.5m and rectangular cushions should not exceed 4.5m. The cushion length can reach 40m. The dimensions can be increased by introducing reinforcement with mesh wire or other materials.

What anchoring system is used?
The cushions are set at the perimeter contour through a system of extruded aluminium profiles. The air tightness of the system is ensured by rubber gaskets.

What are its design possibilities?
Applications with ETFE sheets allow for unique and imaginative shapes in coverings as well as facades. It enables making imaginative and unique shapes and geometries. The main support structure must be able to be inspired by the planned design of the ETFE enclosure, collaborating with it as it were.