CEPSA SERVICE STATION

PROJECT DESCRIPTION

Cover made by 18 ETFE cushions with diferent sizes, located in a frame over the gas pumps of the station.

The fixation of the cushion to the metal frame is done in the top with aluminium profiles.

*Project images are provided by Montse Zamorano

CHARACTERISTICS

Material	ETFE
Application	Infrastructure and equipment
Surface	208m²
Location	Andanero, Ávila
Architect	SAFFRON (Lionel Malka)
Year	2015

TECHNICAL DATA

The ETFE cushions of 250 microns are printed in order to control the solar radiation during the day, and at night, the cushions are enlightened in order to have a remarkable and showy result. The aluminium profiles and the air pipes are hidden by the frame itself.

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.

IASO® Better Outside

TEXTILE
ARCHITECTURE

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.