



AVEIRO UNIVERSITY

PROJECT DESCRIPTION

The New Superior School of Health forms part of the University of Aveiro. The complex consists of two pavilions aligned and connected by two bridges. The construction used in the buildings contrasts with the lightness of the two connecting bridges and openings in the facade constructed with ETFE sheets.

Between the interior facades two ETFE clad foot bridges are supported with a length of over 18m and a height of 8.5m. The transparent enclosure allows natural ventilation through the elliptical top vents. On the facade of one of the buildings, its openings are closed by a double layer reinforced by cables, which achieves a good thermal insulation and a great passage of natural light.

CHARACTERISTICS

Material	ETFE
Application	Infrastructure and equipment
Surface	1.345m ²
Location	Aveiro
Collaboration	AT.93
Year	2010

TECHNICAL DATA

In the buildings: double-layer of ETFE sheets of 250µm printed / 250µm transparent. Footbridges: monolayer sheet of transparent ETFE of 250µm.

IASO monolayer system

One single ETFE sheet with double curvature geometry, which sometimes can also be contained in the plane. Generally, reinforced by cables in one direction or both.

In monolayer applications, it is critical in the initial tension to introduce a prestressed sheet. Knowledge of the subject and a good calculation process will determine the appropriate prestressed settings so that the coverings will work properly over the years.

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TEXTILE
ARCHITECTURE

