



ETFE SESTAO TRIANGLES

PROJECT DESCRIPTION

The aim of this intervention is to create a covered space in the pelota court in the Plaza del Sol, in Sestao, Euskadi.

The metal structure is enclosed by a roof and perimeter facades of translucent polycarbonate, which protect the sports space from inclement weather.

In order to guarantee correct lighting, 2 vertical skylights in the form of inverted triangles are opened on the main façade, where 2 identical metal frames of single-layer ETFE membrane will be fixed.

CHARACTERISTICS

Material	ETFE
Application	Infrastructure and equipment
Surface	11m ²
Measures	2 triangles, Base: 2.9m Height: 3.8m
Location	Sestao
Architect	IMB
Year	2021

TECHNICAL DATA

The two upholstered frames are formed by a 50 x 30 x 2mm metal profile perimeter, RAL 9006 lacquered finish, without interior crosspieces.

To avoid the installation of cables to reinforce the membrane against the pressure and suction forces of the wind, a transparent ETFE membrane with a thickness of

500µm is calculated; this membrane is tensioned around the perimeter, leaving the frame free of interferences.

The frame is fixed to the façade structure by means of screws, remaining flush with the vertical of the façade.

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