CASTELLANA 77

PROJECT DESCRIPTION

Integral rehabilitation of the Castellana 77 building by the international firm Luis vidal + Arquitectos. Its main claim, the white ETFE slat facade not only with an aesthetic objective but also energy efficient.

The surprise: Castellana 77 lights up at night, with ETFE taking centre stage.

CHARACTERISTICS

Material	ETFE Film
Application	Infrastructure and equipment
Surface	1.164m²
Measures	Slat: 1.52 x 0.6m
Location	Madrid
Architect	Luis Vidal + Architects
Year	2017

TECHNICAL DATA

The façade slats play an important role in the building's energy efficiency by regulating exposure to weather conditions. Based on a prior solar study, the geometry was determined across the entire South, East, and West façades, forming parallel lines that comprise a total of 448 slats perpendicular to the façade. At night, they allow the building to be illuminated using various colour patterns.

In general, the slats have a rectangular and flat shape of 1.52 × 0.6m, while others vary in length and curvature radius. The white ETFE wraps around the aluminium frame, adapting to its shape by applying the necessary tension thanks to the specialised design of the perimeter profiles, creating a chamber within the frame. All slats are installed using an anchoring system on the façade uprights, allowing them to be gradually oriented up to 60° of inclination, with fixing points at both ends of each slat. For installation, the ETFE is supplied for later assembly onto the frame in the workshop and on-site.

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