



LINE 11 OF ROSNY-NOIS-PERRIER STATION

PROJECT DESCRIPTION

This project forms part of the framework of the Grand Paris Express macro-project, comprising the creation of new lines on the Paris Metro and the lengthening of existing lines.

This project is more specifically focused on the creation of the new Rosny-Bois-Perrier station on the newly extended Line 11 of the Paris Metro.

The new station's roof will feature two lightwells created from three-layered ETFE cushions which will provide lots of light while ensuring the roof is perfectly sealed. The first well takes the shape of a trapezoid and is made up of seven cushions arranged on arches and which cover a surface area of 10.9 metres wide by between 13.8 metres and 16.5 metres long. The second well has a rectangular shape and is made up of six cushions, also arranged on arches, which cover a surface area of 10.9 metres wide by 11 metres long.

This configuration featuring two lightwells covers a total area of 280 m2.

CHARACTERISTICS

Material	ETFE Film
Application	Infrastructure and equipment
Surface	306 m²
Measures	Well 1: 10.9m. x length varying between 13.8m. Well 2:16.5m. + 10.9m. x 11m.
Location	Paris
Architect	RATP
Year	2020

TECHNICAL DATA

This installation has been carried out using IASO's standardised AVIS TECHNIQUE system for ETFE cushions.

The ETFE cushions have three layers, with the middle one being tensioned. All of the ETFE membranes are transparent and have a thickness of 200 microns.

The perimeter of the roof is bordered by anodized aluminium flashings and a sealing membrane integrated into the roof profiles to keep the roof watertight.

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